

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 27th Year
Single Copy: \$1.25

Return Address:
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822 Wauona Trail
Portage, WI 53901

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Vol. 27 No. 6 • 318th Consecutive Monthly Issue • Baraboo, Wisconsin • June 1996

GOOD FUN, GREAT EMERGENCY PRACTICE: FIELD DAY 1996



1 P.M. CDT SATURDAY, JUNE 22
THROUGH
4 P.M. CDT SUNDAY, JUNE 23

Wisconsin "Rockets for Schools" Launch a Success

Despite marginal signals from an onboard ATV transmitter, the May 4 launch from Sheboygan, Wisconsin, of an ATV-carrying rocket is being considered at least a qualified success by Bryan Suits, WB8WKN, who was in charge of the payload. The 11-foot-long Super Loki sounding rocket was sent into the air over Lake Michigan, as part of the Wisconsin Rockets for Schools Project, a program to stimulate interest and excitement in mathematics and science. Launch-day weather began as "very iffy," said Suits, a physics professor from Houghton, Michigan. But, he said the sky cleared up and winds abated by the 2 PM (CDT) launch time.

"The payload worked as planned," Suits said, although received signals were "on the poor side." Suits speculates the noisy signal was the result of antenna damage that occurred. "But we did indeed get signals," he said. Before the launch, Suits had said he'd consider the project a success if the transmitted just one good frame back to earth. A frame-by-frame analysis of the video indicates the starlute (a special high-altitude parachute-type device) connection was probably severed during ejection. As a result, "we got a lot of rapid tumbling motion," Suits explained. He said the payload was tumbling a few rotations per second. The video Suits received on the ground showed the horizon and some of Earth's curvature, but "no identifiable features" because of the rapid rotation of the payload, he explained.

Audio telemetry signals received on the ground indicated that all the electronics survived the mistreatment on the way up. "I am very pleased that the payload worked so well on the first try!" he said. Onboard devices measured battery voltage as well as internal and external temperatures. The devices reported an internal temperature of 0 degrees C and an external temperature of -50 degrees C. Prior to the launch, Suits had worried about overheating of the batteries. An altimeter failed to operate, however, so Suits is not sure if the rocket actually reached the planned altitude of nearly 50 miles.

The payload was not recovered. "It's probably at the bottom of Lake Michigan by now," Suits said. "We will be doing some digital analysis of the signals and compiling the telemetry from our different receiving stations," Suits said, adding that some already are talking about attempting another launch next year.

Overall, Suits reports "a good time was had by all and students of all ages enjoyed the event. A lot of dignitaries were there as well, and saw what Amateur Radio could do." An ATV balloon launch was under way at the same time, and Suits says quite a few who were looking at the balloon signal thought they were seeing the signal from the rocket. Amateur Radio also played a role in ground communication, range safety and tracking on both VHF and HF.

The Aerospace States Association sponsored the launch. "We're grateful to the ASA for giving us this opportunity to help with this project," Suits said.

Wisconsin PRB-1 Bill Dead for Now

A busy legislative agenda and political infighting are being blamed for the failure of a bill in the Wisconsin legislature that would have gone further than PRB-1 in limiting local control over Amateur Radio antennas. The bill, SB-544, had state Senate approval. Supporters had hoped to get approval of the state Assembly during a brief special session, but it never made it to the floor.

According to Gary Schwartz, K9GS, who tracked the proposed legislation, the bill would have prevented localities from

restricting ham radio towers on the basis of height or aesthetics, unless there was a specific health or safety concern. The bill also would have kept localities from enacting laws affecting placement, screening or height of Amateur Radio antennas "if the ordinance or resolution is based solely on aesthetic considerations." The bill was modeled after existing provisions of Wisconsin law that restrict localities from regulating certain satellite TV antennas. Supporters have vowed to try again next year.

- The ARRL Letter, 5/15/96

Vanity Call Sign Filing Gate 1 Open May 31

The vanity call sign program is almost here! The FCC has announced that Gate 1 of the vanity call sign program opens May 31, and eligible hams may file applications on or after that date.

Under Gate 1, you can file for a previously held individual or club call sign or for a call sign formerly held by a deceased close relative. Specific eligibility criteria are below. To request a vanity call sign for your primary station, you must already hold an unexpired amateur operator/primary station license. To obtain the former call sign of a deceased close relative, your license also must be of the proper operator class. To request a formerly held club station call sign, you must also hold an unexpired club station license listing you as the trustee. Vanity call sign applicants must use FCC Form 610-V to file.

Applicants should refer to the licensee data base to make sure the call sign they are requesting is not already assigned. A call sign is normally assignable two years following license expiration, surrender, revocation, set aside, cancellation, void ab initio, or death of the grantee. FCC Fact Sheet PR5000 Number 206-V, Amateur Station Vanity Call Sign System, has details. For explanations of Groups A, B,

C and D and the geographic Regions, see Fact Sheet PR-5000 #206, Amateur Station Sequential Call Sign System.

Legibility is critical! If your application is not legible, you could experience a delay in processing, lose the opportunity to obtain a requested call sign or even obtain a call sign different from what you want.

Gate 1 Eligibility Criteria

Request by Former Holder (Primary Station): For your primary station, you may request a call sign that was previously assigned to your primary, secondary, repeater, auxiliary link, control, or space station. You may request your former call sign even though it has been unassigned for less than two years. The two-year requirement does not apply to an otherwise eligible primary station if the call sign was previously assigned to a station of the requester. You do not have to hold a class of operator license required for the Group (A, B, C, or D) for the call sign requested.

A call sign request by a former holder may be from any group in the sequential system. Your mailing address does not

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EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests and Other Social Events

SUNDAY, JUNE 1, 1996. Adams County ARC Spring Hamfest, Adams County Fairgrounds, Friendship, WI. West of Highway 13 on County Highway J. Contact: Adams County ARC, PO Box 232, Friendship, WI. Phone (608) 564-7887. Packet N9TD-1 on 145.03.

SUNDAY, JUNE 2, 1996. Princeton Hamfest/Computer Show. Bureau County Fairgrounds in Princeton, IL. Sponsored by the Starved Rock Radio Club. Contact Bruce Burton, KU9A or Debbie Burton, N9DRU, 1153 Union St., Marseilles, IL 61341-1710. (815) 795-2201.

SUNDAY, JUNE 9, 1996. CWRA Swapfest, UW-Stevens Point Student Center, U.W. Stevens Point, WI. FCC exams 9:00 a.m., fox hunt 10:00 a.m., free parking, commercial dealers, 6:30 a.m. vendor setup, 9:00 a.m. swapfest opens, food and refreshments, WAPR and WNA meetings, TBA. Contact: John Kalina, KA9DJA, 1240 North Point Dr., Stevens Point, WI 54481. (715) 344-1407.

SUNDAY, JUNE 9, 1996. Cook County Hamfest at Santa Fee Park, 91st and Wolf Road, McHenry County Fairgrounds, Woodstock, IL.

SATURDAY, JULY 13, 1996. South Milwaukee Amateur Radio Club Swapfest, Legion Post, Oak Creek, WI.

SUNDAY, JUNE 30, 1996. Six Meter Club of Chicago Hamfest at the DuPage County Fairgrounds, 2015 Manchester Rd. (North of Roosevelt rd., Rte. 38, East of County Farm Rd.) Wheaton, IL. Contact: (708) 442-4961.

SATURDAY, JULY 13, 1996. South Milwaukee ARC Swapfest. American Legion Post 434, Oak Creek, WI. Contact (414) 762-3235.

SATURDAY, JULY 27, 1966. Eau Claire ARC Swapfest, New Location: Eau Claire County

Fairgrounds, intersection of Highways 93 and I-94, Eau Claire, WI. Free parking, free coffee, lunch available on grounds, advance setup from 5:00 p.m. Friday, commercial exhibitors, Contact: Carol Ceraso, (717) 723-9205 or Liz Searing, (715) 834-1303. P.O. Box 1867, Eau Claire, WI 54701.

SATURDAY, JULY 27, 1996. 1996 Rockford hamfest, New date and Location. Winnebago County Fairgrounds, Pecatonica, IL. Also check the steam engine show at nearby Freeport Fairgrounds. Contact: Rockford ARA, PO Box 8456, Rockford, IL 61126-8465. Marsha Plasters (815) 399-9233 or Diana White (815) 645-8545.

SUNDAY, JULY 28, 1966. RACINE HAMFEST 96, South Hill Country Club I-94, East Frontage Road between Highways 20 and K. Contact: RMC, P.O. Box 3, Racine, WI 53401.

SUNDAY, AUGUST 4, 1996. The Marshfield Area Amateur Radio Society will be holding their 5th annual picnic. Gather around 11:00 a.m. Potluck, Swapfest. In Wildwood Park, Marshfield, WI. Talk in on 147.180. All welcome. Contact: Guy A. Boucher, KF9XX, 107 West Third St., Marshfield, WI 54449. (715) 384-4323. Packet:KF9XX @ W9IHW.WI.USA.NA.

SATURDAY, AUGUST 17, 1996. Northwoods Hamfest, sponsored by the Rhinelander Repeater Association and the Northwoods ARES at Sugar Camp Town Hall, Highway 17, 13 miles north of Rhinelander, WI. Contact: Mary Berger, NS9Q, 367 Lois St., Rhinelander, WI 54501. (715) 362-9296.

SATURDAY, AUGUST 17, 1996. Swapfest sponsored by C.A.R.S. at Crystal Ridge Ski Lodge, 76th Street and Loomis Road (Hwy 36), Franklin, WI. Contact C.A.R.S., P.O. Box 325, Franksville, WI 53126-0325, or call Mike N9OEZ at (414) 325-7427.

SUNDAY, AUGUST 18, 1996. DuPage ARC Hamfest Computer Show. Hawthorne Race Course, 3500 South Cicero Ave., Stickney, IL. Contact DARC Hamfest 96, 7511 Walnut Ave., Woodridge, IL 60517.

SATURDAY, AUGUST 24, 1966. Hamfest & Computer

Expo, Omni Center, Onalaska, WI. 2 1/2 miles north of LaCrosse on Highway 35. Contact: Dick Low, KOJYB, 1520 Namomis Ave., La Crosse, WI 54603. (608) 784-9176.

SUNDAY, AUGUST 25, 1966. Woodstock '96 Hamfest. McHenry County Fairgrounds, Woodstock, IL. Contact: voice/fax (847) 658-1678. e-mail tcriginc@aol.com.

SATURDAY, AUGUST 31, 1996. Hayward Hamfest, Hayward National Guard Armory, 721 North Iowa (Main) St., Hayward, WI. Contact: Namekagon Valley Wireless Association, PO Box 13010, Hayward, WI 54843. Wally Kruk, N9NAO, @ (715) 643-4940, Mary, KB9LFF or John, N9QWH @ (715) 378-2368, or Ed, KB9JPR or Jill, KB9KPL @ (715) 634-8921.

SUNDAY SEPTEMBER 8, 1966. Hamfest Radiofest Computer Expo, Dubuque County Fairgrounds, Dubuque, IA. Contact: GRARC, PO Box 546, Dubuque, IA 52004, or Loren Heber, (319) 556-5755, Jerry Lange, (319) 556-3050 or Jerry Ehlers, 583-1016. e-mail sheber@mwci.net.

SUNDAY, SEPTEMBER 8, 1996. Bolingbrook ARS Hamfest 96, Inwood Recreation Center, 3000 W. Jefferson ST. (Rt. 52), Joliet, IL. Contact: BARS Hotline at (708) 759-7005 between 6:00 a.m. and 9:00 p.m.

SEPTEMBER 13, 14, 15, 1996. ARRL National Convention at Superfest 96, Peoria Civic Center, Peoria IL. For exhibition information contact: R & B Productions, 7150 University ST., Peoria, IL 61614 (309) 693-9667. Fax: (309) 693-3465. For general information contact: Peoria Area ARC, PO Box 3508, Peoria, IL 61612-3508. Ron Morgan, KB9NW, General Chairman, (309) 692-FEST. E-Mail: Superfest@AOL.com.

SUNDAY, SEPTEMBER 22, 1996. Dane County ARES Early Autumn Swapfest, Madison, WI. At Fast Forward Roller Skating and Skate Shop, 4649 Verona Road, (Hwy 151/18). Contact Dane County ARES, Inc., 810 Vernon Ave., Apt 4, Madison, WI 53714. (608) 222-3444.

SUNDAY, OCTOBER 13, 1996. Kettle Moraine Radio Amateurs 1966 Computer Fair and Hamfest. Waukesha County Exposition Center in the Forum Building, Highways J and FT in Waukesha, WI. Contact KMRA Swapfest, PO Box 411, Waukesha, WI 53187-0411. Or call Ron at (414) 547-2219 or Andy at 549-0393.

SATURDAY, OCTOBER 26, 1966. Hamfest Minnesota & Computer Expo. St. Paul Civic Center, St. Paul MN. Contact: PO Box 5598, Hopkins, MN 55343. (612) 535-0637.

SUNDAY, NOVEMBER 3, 1966. Fox Cities Hamfest, Starlite Club, Hwy 55, North of Kaukana, WI. Contact: Chad Pennings, N9PRC, 318 E. Brewster ST., Appleton, WI 54911. (414) 954-1229. **SUNDAY, JANUARY 12, 1997.** West Allis ARC, 25th Annual Midwinter Swapfest. Waukesha County Expo Center Forum, Waukesha, WI. Contact: WARAC Swapfest, PO Box 1072, Milwaukee, WI 53201.

SUNDAY, MARCH 9, 1997. SEWFARS SWAPFEST, Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS, P.O. Box 102, Delafield, WI 53018. (414) 650-0724.

SUNDAY, MARCH 16, 1997. Tri-County ARC Hamfest at the Jefferson County Fairgrounds, Activity Center, Hwy. 18 West, Jefferson, WI. Contact: TCARC, W9MQB, 711 East St., Fort Atkinson, WI 53538. (414) 563-6502 evenings.

See also the back page and flyer ads for additional information on many of these events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebneter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Badger State Smoke Signals

*Amateur Radio
Education and Information*

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Subscriptions

1 year	(12 issues)	\$12.00
2 years	(24 issues - save \$2.00)	\$22.00
3 years	(36 issues - save \$4.00)	\$32.00

Special club package reduced rates are available. For information, contact Ken Ebneter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that

month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebneter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebneter.

Club, swapfest, and Test Point information should be sent to Ken Ebneter.

Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

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Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the November 1995 meetings column for the latest complete listing. The following are additions or changes since that listing.

FALLS AMATEUR RADIO CLUB, INC

The Falls Amateur Radio Club, Inc. meets the last Wednesday of the month at the Bank One building in Germantown, WI at Pilgrim and Mequon Roads. The doors open at 7:00 p.m. and the meeting will begin at 7:30 p.m. !!GUESTS ARE WELCOME!!

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: The meeting dates for 1996 are Jun 13, Jul 16, Aug 14, Sep 12, Oct 15, Nov 13, with the Holiday party scheduled for Friday December 13, 1996. All meetings will be at the Baraboo Civic Center, room 14, unless otherwise noted. Starting time for the monthly club meeting is 7:30 p.m.. The program start time after the meeting is 8:00 p.m., with a one hour limit.

NOTE: We are planning on printing the full club meeting listing in next months BSSS. If your club information is incorrect in the last full listing in November 1995, or if you want your club meetings listed please contact K9EN at the address on page 2.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

June 01, 1996	Pewaukee, WI
June 01, 1996	Racine, WI
June 01, 1996	Oshkosh, WI
June 01, 1996	St. Paul, MN
June 08, 1996	Oak Creek, WI (MRAC)
June 08, 1996	Madison, WI
June 08, 1996	Red Granite, WI
June 08, 1996	Bloomington, MN
June 08, 1996	Blaine, MN
June 09, 1996	Stevens Point, WI
June 13, 1996	Swapfest
June 15, 1996	Apple Valley, MN
June 15, 1996	Appleton, WI
June 15, 1996	Loves Park, IL
June 15, 1996	Cottage Grove, MN
June 18, 1996	Eden Prairie, MN
June 19, 1996	Milwaukee, WI (MRAC)
June 29, 1996	Wauwatosa, WI (MRAC)
June 29, 1996	Tomahawk, WI
June 29, 1996	Redgranite, WI
July 06, 1996	Oshkosh, WI
July 06, 1996	St. Paul, MN
July 11, 1996	Apple Valley, MN
July 13, 1996	Oak Creek, WI (MRAC)
July 13, 1996	Madison, WI
July 13, 1996	Red Granite, WI
July 13, 1996	Bloomington, MN
July 13, 1996	Blaine, MN
July 16, 1996	Eden Prairie, MN
July 17, 1996	Milwaukee, WI (MRAC)
July 20, 1996	Loves Park, IL
July 20, 1996	Cottage Grove, MN
July 26, 1996	Eau Claire, WI
July 27, 1996	Eau Claire, WI
July 27, 1996	Swapfest
July 27, 1996	Wauwatosa, WI (MRAC)
July 27, 1996	Tomahawk, WI
July 27, 1996	Rockford, IL
August 3, 1996	Hamfest
August 17, 1996	Pewaukee, WI
August 17, 1996	Rhineland, WI
August 17, 1996	Northwoods Hamfest
August 17, 1996	Franklin, WI
August 24, 1996	CARS Swapfest
August 24, 1996	Onalaska, WI
August 24, 1996	Riverland Hamfest
August 31, 1996	Hayward, WI
September 14, 1996	Hayward Hamfest
September 21, 1996	Appleton, WI
October 13, 1996	Onalaska, WI
October 13, 1996	Waukesha, WI
October 21, 1996	KMRA Hamfest
November 2, 1996	Redgranite, WI
November 2, 1996	Menomonee, WI
November 3, 1996	Kaukauna, WI
November 3, 1996	Fox Cities Swapfest

November 9, 1996 Marshfield, WI
 November 30, 1996 Onalaska, WI
 Monthly, 1st Sat. Racine, WI
 (except January, July & August)
 Monthly, 1st Sat. Oshkosh, WI
 Monthly, 1st Sat. St. Paul, MN
 Monthly, 2nd Thu. Apple Valley, MN
 Monthly, 2nd Sat. Oak Creek, WI
 Monthly, 2nd Sat. Madison, WI
 Monthly, 2nd Sat. Red Granite, WI
 Monthly, 2nd Sat. Bloomington, MN
 Monthly, 2nd Sat. Blaine, MN
 Monthly, 3rd Tue. Eden Prairie, MN
 Monthly, 3rd Wed. Milwaukee, WI (MRAC)
 Monthly, 3rd Sat. Loves Park, IL
 Monthly, 3rd Sat. Cottage Grove, MN
 Monthly, Last Sat. Wauwatosa, WI (MRAC)
 (except December)
 Monthly, Last Sat. Tomahawk, WI
 (January thru October only)
 Quarterly Marshfield, WI
 (Second Saturday every third month.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$6.05 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

OAK CREEK, WI

SECOND SATURDAY DATE: 1:00 p.m. at Wauwatosa Savings Bank, 6560 S. 27th St., Oak Creek, WI.

THIRD WEDNESDAY DATES: At 6:30 p.m. at Village at Manor Park, (was Methodist Manor) 3023 S 84th St., (84th & Oklahoma) Milwaukee, WI.

LAST SATURDAY DATES: (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write Milwaukee Radio Amateurs Club, PO Box 25707, Milwaukee, WI 53225.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Amateur exams: 1:00 p.m. to 4:00 p.m. Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building starting at 9:00 a.m. for commercial exams and Amateur exams at 1:00 p.m. the same day. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical

exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, N29B

RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

Eau Claire, WI (W5YI VEC)

Eau Claire Hamfest, Friday, July 26, 1996 evening 7-9 p.m. Saturday, Hamfest Day, 9 a.m. to 1 p.m. All Walk-ins. Contact Carl Searing, W9NW, 1129 Mc Kinley Rd., Eau Claire, WI 54703.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Talk in on 147.87/.27. Inquiries and registrations should be directed to Robert N. Jensen, W0WLN, 5616 Cambridge lane #6, Racine, WI. Telephone (414) 886-8551.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct. Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967, or Larry Siebers, KD9IA (414) 730-0967.

MENOMONIE, WI

The Menomonee VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonee, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave. On 13 April and 9 November in the 1st West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WB0KIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

GREEN BAY, WI (ARRL/VEC)

Ashwaubenon High School, 2391 S. Ridge Road, Green, Bay. Check in at 8:00 a.m. and testing starts at 9:00 a.m. Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

PEWAUKEE, WI

Kettle Moraine Exam Team. Held at the Pewaukee WCTC Campus Science Building, Room S101. 9:00 a.m. to Noon. Contact Al Johnson, AA7CS. (414) 568-0836.

FOND DU LAC, WI

Community United Methodist Church, 701 Minnesota Ave., North Fond du Lac, from 9:00 am to 12:00 noon. Contact: Doug Schultz, N9EZF, (414) 922-3088.

REDGRANITE, WI (W5YI and ARRL VEC)

Test sessions are held in Redgranite on the second Saturday of each month, at the Civic Center, 202 Pine River Road, just off highway 21. Talk in on the 145.210 repeater, no tone at this time. Test begins at 0900. Breakfast meeting at the "Curve Inn" restaurant on highway 21, east of downtown. All amateurs welcome. Recommend calling to verify test session, or ask on the 145.210 repeater. Bring copies of your CSCE's and original license. Also two forms of identification. Call Terry Witt, at (414) 685-5018 or write Ivy Lane, Berlin, WI 549-23.

OSHKOSH (OMRO)

The Oshkosh VE Team will administer Amateur Radio exams monthly on the first Saturday. Exams will be given from 9 a.m. until noon at the Omro City Hall. Registration begins at 8 a.m. Walk-ins OK. Bring a good quality photocopy of your original license. The first session will be through W5YI/VEC, and then sessions will alternate between ARRL/VEC and W5YI/VEC. For more information, please call Dick Lemme, KB9FA, at (414) 235-0987, or write Dick at 826 Jefferson Street, Oshkosh, WI 54901.

(continued on page 15)

Wisconsin Nets Association Ltd.

Jim Merrill, W9AYK, Secretary • W283 Hillendale Drive • Oconomowoc, WI 53066

SECTION MANAGER'S NOTES



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221



Beginning July 1 we have a new Section Manager: Roy Pedersen, K9FHI, 510 Park Street, Juneau, WI 53039. Please contact Roy at 414-386-4666 for any ARRL or Amateur Radio questions and needs.

July 13 South Milwaukee ARC Swapfest, American Legion Post 434, Oak Creek.

July 27 Eau Claire ARC Swapfest, County Fair Grounds, Highways 93 and I-94.

July 28 Racine Hamfest, South Hill Country Club, I-94 East Frontage Road between Highways 20 and K.

Thanks to N6JSX, who now has a new job in Eau Claire, for serving as OOC. The OOC position is now vacant.

Review Field Day results at your next club meeting.

Racine Megacycle Club will have a fox hunt on July 19.

WB9JWT says "Try the Six-Meter Net, Monday and Thursdays at 9 p.m. on 50.16 MHz."

K0JYB is on slow scan TV.

MANCORAD will be celebrating 50 years of ARRL affiliation.

N9UWY of Neillsville is looking for anyone using Apple Mac computers.

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	KE9VU
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	N9MXW
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9UW
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	2330	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0145	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0100	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1300	0800	WA9OAY
(LSB Sunday)					

W9BZU has 70 years of ARRL membership. W9CBE collects postage stamps.

WA9JOB hopes the concept of a National Frequency Coordinator Council is adopted.

There are 164 radio clubs in Wisconsin, is yours ARRL affiliated?

Exams: July 6 Oshkosh, July 13 Oak Creek, Redgranite; July 17 Milwaukee, July 26 Eau Claire, July 27 Tomahawk, Wauwatosa and Eau Claire.

Sorry to report Silent Key K9JWU of Madison.

Thought of the month: *Real leaders are ordinary people with extraordinary determination.* □

FCC Denies W5YI Petition to end One-Way Transmissions

Citing overwhelming opposition, the FCC has denied a Petition for Rule Making, RM-8626, filed last year by Frederick O. Maia, W5YI, that would have prohibited one-way transmissions of bulletins and code practice -- such as those aired by W1AW -- on frequencies below 30 MHz. Maia had argued that such transmissions were outmoded and that some one-way, broadcast-type transmissions have interrupted two-way communications already in progress.

Maia publishes the commercial newsletter the *W5YI Report*, manages the W5YI-Volunteer Examiner Coordinator, and publishes training materials for amateurs.

When he filed his petition, Maia expressed concern over the level of anger directed at certain one-way transmissions. "The proliferation of these stations has caused chaos in the amateur community that has now reached crisis proportions," he said.

The ARRL said that Maia's arguments were overstated and inflammatory, and the League urged the FCC "in the strongest possible terms" to deny or dismiss the petition without further consideration. The League cited W1AW's 65 years of free service to amateurs; other countries whose amateur societies also conduct informational bulletins on the air; the absence of any allegations that W1AW creates any significant interference to ongoing amateur communication; and the value of W1AW's bulletins in alerting amateurs to emergency situations.

The League said that "any on-air anger perceived by Maia" ought to be the subject of FCC enforcement action, not rules changes, saying such situations were the direct result of the Commission "allowing abuses to continue for months and years" rather than addressing them in a timely manner in the context of the existing rules.

The ARRL also said that W1AW code practice as a free alternative to Maia's retail sale of code practice products "is sufficient rebuttal to the allegation that the code practice has 'outlived its usefulness'."

During the comment period, the FCC said it received 371 comments opposing Maia's request and 20 comments supporting it. While acknowledging some disagreement about the propriety of one-way transmissions on HF bands, the Commission said the overwhelming opposition to Maia's petition "persuades us that the amateur service community continues to view the one-way information bulletins and the text for telegraphy practice to be of great value to the service."

- The ARRL Letter, 4/26/96

Swapfest '96

The South Milwaukee Amateur Radio Club inc.
Sat. July 13th '96 5:30AM.
American Legion Post 434
Oak Creek Wi. Tickets=\$5.00
Food-Drinks-Camping-Amateur Exams
Free Beer-Happy Time-Free Soda

Talk-in. Freq.= 146.52
(WA9TXE)

Phone# 414-762-3235

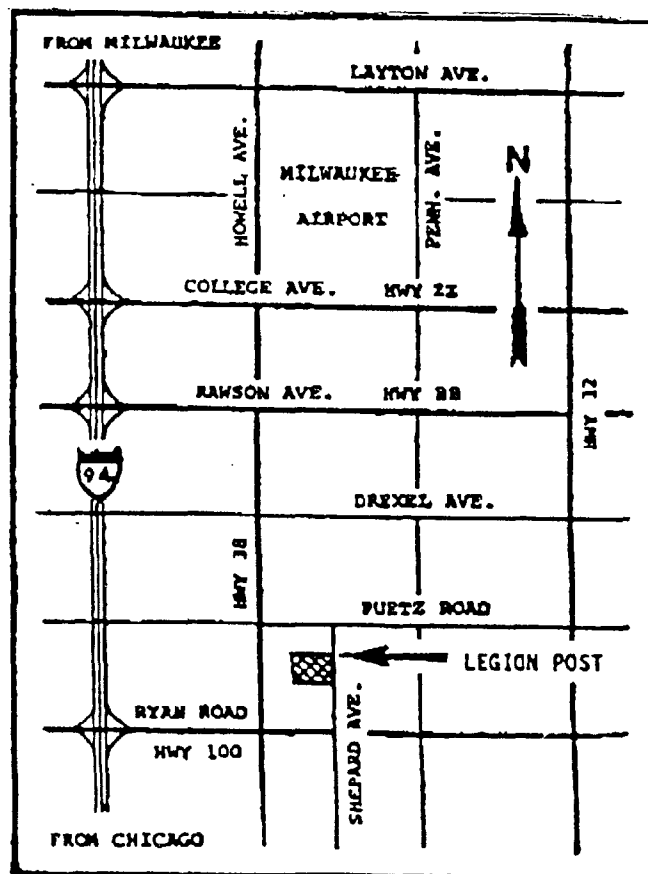
1st. Prize= \$100.00

2nd Prize= \$75.00

3rd Prize= \$50.00

4th Prize= \$25.00

Hourly Prizes!!



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✕ Clocks traded for Ham Radio gear

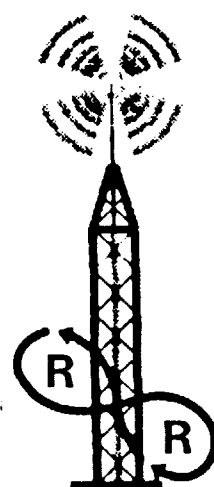
OUR STOCK CHANGES OFTEN!

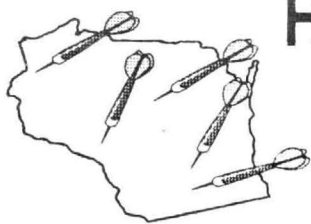
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HERE and THERE

Solar Cycle Bottoming Out

Solar observer Tad Cook, KT7H, reports we are at or near the solar activity minimum. Solar activity was up a little last week, but geomagnetic activity also remained high. The average Boulder A index was 15.9, the previous week was 15.4, and it was 5.7 the week before that. The A index is a daily indication of geomagnetic field stability, and values below 10 generally mean that the field is stable and absorption is low. Average sunspot numbers were up by over 12 points this week.

The best daytime band for long distance communication probably is 30 meters, with 20 meters a fair bet when solar flux rises slightly. Solar flux is expected to remain at or below 70 until after the first week of May. It should peak around the mid-70s around May 11, and then fall below 70 again after May 18. The geomagnetic field should stay stable until May 8, and then expected disturbances center around May 11, 14 and 15.

Sunspot numbers for April 18 through 24 were 29, 26, 28, 18, 15, 12 and 11, respectively, with a mean of 19.9. The 10.7-cm solar flux was 70.1, 70.5, 71.5, 74, 72.4, 71.1 and 68.6, respectively, with a mean of 71.2.

- The ARRL Letter, 5/3/96

FCC Issued Call Sign Update

The following is a list of the FCC's most recently issued call signs as of May 1, 1996.

District	Group A Extra	Group B Advanced	Group C T/G	Group D Novice
0	AB0BS	KI0CS	++	KB0WHV
1	AA1PY	KE1EO	N1XF1	KB1BXY
2	AB2AW	KG2GV	++	KB2YSX
3	AA3OF	KE3WL	N3XHP	KB3BOP
4	AE4TZ	KT4PM	++	KF4JEE
5	AC5HR	KK5ZR	++	KC5UHB
6	AC6UL	KQ6FX	++	KF6DMG
7	AB7QN	KJ7XJ	++	KD7AAC
8	AA8WV	KG8WW	++	KC8DNZ
9	AA9SA	KG9GG	++	KB9NNQ
Hawaii	++	AH600	++	WH6DAW
Alaska	++	AL7QI	++	WL7CSZ
Virgin Is	WP2X	KP2CJ	NP2JF	WP2AID
P R	++	++	++	WP4NLY

++ All call signs in this group have been issued in this area.

- The ARRL Letter, 5/10/96

Balloon is a Tornado for Test

Chippewa Valley ARES, in cooperation with the Eau Claire County Emergency Government office, launched a manned hot air balloon from the southwest side of Eau Claire to simulate a tornado over the city. The tornado drifted over the city, touching down at several locations. The public was given a phone number to call and report sightings of the "tornado". Several businesses donated merchandise for the first sixty people who called in sightings of the balloon. Local news media covered the event.

Chippewa Valley ARES called up a standby Skywarn net on the 146.91 MHz repeater at 7:15 a.m. At 7:30 a.m., a Skywarn net was put into operation and checkins were taken. A total of thirty hams took part in the exercise.

And on Thursday, April 25, 1996, Chippewa Valley ARES took part in the statewide tornado drill. At 1:15 p.m. a standby Skywarn net was called up on the 146.91 MHz repeater in Eau

Great Circus Train Special Event Station

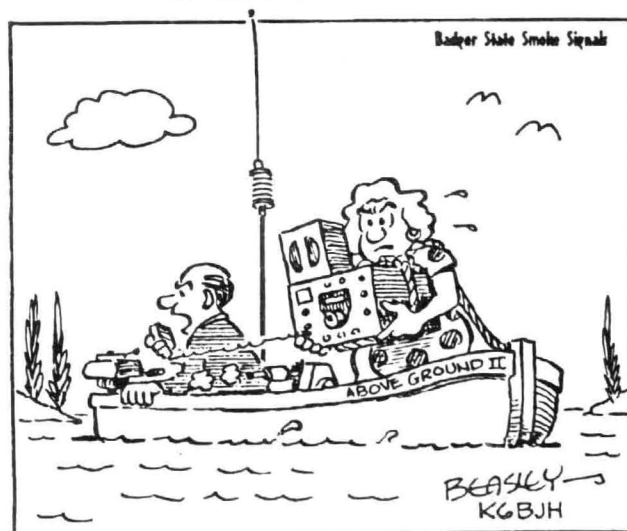
Special event station K9JYX/Railroad Mobile will operate from the Great Circus Train as it winds its colorful route from Baraboo, Wisconsin to Milwaukee on July 8 and 9, 1996. Operation will be near 7.240 or 14.240, depending on propagation, from about 9 a.m. CDT until about 8:30 p.m. CDT July 8 (due to a longer route), and from about 9 a.m. until about 3 p.m. July 9. Also, although not offering wide-area coverage on 2 meters (an HT inside a coach), 146.55 MHz simplex FM may be operated. A colorful certificate awaits those who work the station. QSL cards, with a 9" x 12" SASE with THREE units of U.S. first class postage affixed, should be sent to Don Evenson, K9JYX, 401 11th Street, Baraboo, WI 53913. Please allow eight to twelve weeks for your certificate to arrive.

Claire. At that time, hams were dispatched to the county communications center, WEAU-TV, and various spotting locations. KA9GTF checked into the RACES net on 3.985 MHz. A total of twenty nine hams took part.

- Jack Brenner, N9UXH, Chippewa County
Emergency Coordinator via Rich Regent, K9GDF

On the Lighter Side

By Bob Beasley, K6BJH



ManCoRad Says "Thanks!"

The Mancorad radio club thanks the many patrons, participants, and vendors who took part in our hamfest. We were fortunate in increasing all three factions and look forward to next years hamfest.

The main prize winners as follows.

The radio, Mike Mc Donnough, N9VSQ,

Please turn to page 9

Badger Contesters Meet; Codeless Techs Welcome

A shack meeting of the Badger Contesters was held at the home of John Feltz, WA9LWJ, in Junction City, WI on Saturday, April 20, 1996.

Those attending included Brian, WB9E (WA9LWJ son), Gregg, AA9AO, Bruce, KE9QT, Kurt, N9WVD, Jeff, N9WBR, Jim, KD9PW, George, WA9SZH, Scott, NE9U, Pete, N9QZD, Al, N9ISN, and Gary, ND9Z.

Several subjects were talked about, including:

Having 3 - 4 select sites at sawp or hamfests where we would have our own tables. Thus, we could promote our activities, hand out literature, have a central place to meet, and the members could have some items for sale or trade on these tables.

The Central States VHF Conference was discussed. This conference will be held on July 26 - 28 in Minneapolis. All VHFers are urged to attend. Contact Paul, W0UC, for further information.

Problems with equipment and antennas were discussed.

We urge all FMers to get involved in the various VHF/UHF contests. We have many SSB/CW operators calling on FM simplex frequencies for contacts and points.

Presently, we have a 2-meter net which meets every Tuesday night at 8:30 p.m. local time on 144.220 MHz SSB. Gregg, AA9AO, is NCS. Generally, he looks to the west for out-of-staters, then to other areas in Wisconsin. This net will shut down for the warm months and resume in September.

Several handouts were given to all in attendance.

A tour of John's shack was given, and the antennas were inspected by the group.

All in all, everyone enjoyed themselves, and plenty of information was passed between those present.

- John Feltz, WA9LWJ



Attending the Badger Contesters meeting April 20 were, left to right, front row: Brian, WB9E; Gregg, AA9AO; Bruce, KE9QT; Kurt, N9WVD; Jeff, N9WBR; and John, WA9LWJ. In back are Jim, KD9PW; George, WA9SZH; Scott, NE9U; Pete, N9QZD; Al, N9ISN; and Gary, ND9Z.

- Photo courtesy John Feltz/WA9LWJ

BADGER STATE SMOKE SIGNALS

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1 Year: \$12.00 • 2 Years: \$22.00 (save \$2.00) • 3 Years: \$32.00 (save \$4.00)

PLEASE PRINT!

Name: _____ Call Sign (if any): _____

Address: _____ City: _____ State: _____ ZIP: _____

☐ 1 Year ☐ 2 Years ☐ 3 Years ☐ New ☐ Renewal

Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913-0337. Please do NOT send cash!

June 1996

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105 Martin Drive
Port Washington, WI 53074-9654
(414) 284-9346
WB9RQR @ N9PBY.EN63BI.WI.USA.NA
SKAPLAN @ POST.ITS.MCW.EDU

Perhaps you have an old XT or AT which has been doing yeoman service for some time, and you are thinking of upgrading the modem, the video board, or another board inside the case. Why not do it right, and perform major maintenance while you are at it? It is not a hard job, and it can add years of life to a computer. Here is how to proceed.

Make sure you know the CMOS settings for your hard drive, if your computer is a 286 or above. You need to know the number of cylinders, number of heads, number of tracks, write precompensation if any, and landing zone. Write all this down.

Gather your tools: vacuum cleaner and hose, flat and Phillips head screwdrivers, nut drivers and a pad of paper for notes. The latter is just as important (or more so) than the other tools. Also locate some masking tape and a sharp marking pen to make sticky labels. Make sure everything is unplugged from the wall power socket.

Open the case and spend 10 or 15 minutes examining the inside. Use the chart below to identify each and every board inside.

BOARD IDENTIFICATION

MOTHERBOARD	Typically the largest board inside the case. Lies flat and horizontal in the bottom of a desktop case, vertical in a tower style case. All other boards plug into slots soldered to it.
VIDEO CONTROLLER	Monitor plugs into it on the back of the computer.
FLOPPY CONTROLLER	Has a wide ribbon cable leading from it to the back of the floppy drive(s).
HARD DRIVE CONTROLLER	Has a wide ribbon cable leading from it to the back of the hard drive(s). There may be both a 34 wire and a 20 wire cable to each drive, or just a single 40 wire cable.
PRINTER PORT	Has a wide ribbon cable leading from it to a 25 pin female shell connector on the back of the computer.
SERIAL PORT	Has a wide ribbon cable leading from it to a 25 pin male plug, or a 9 pin plug, or both, on the back of the computer.

Note that some boards may serve several functions. For example, a monochrome video controller board typically also has a printer port. Some multifunction boards control just about everything - the floppies, one or two hard drives, one or two serial ports and a parallel (printer) port. Thus, your computer may have only two boards plugged into the motherboard. Further, if the motherboard has a built-in video controller, there may only be one board plugged into the motherboard.

starting from the one closest to the power supply. Note the number of each slot containing a board, and the board type. Note on the sketch the slots that are empty. The aim is to put everything back, exactly as it was, later.

Now prepare two tape labels for EACH cable plugging into a board, including the motherboard. The label on the board can be a simple number, like "1". Also label the cable that plugs in there with a "1". Of course, no other pair of connectors (cable and pins that it plugs into) should be labeled with the same number! Be sure the labels are stuck on the same side of the cable/pin pair; if the cable has a red stripe, put the label near that edge of the cable AND that side of the connector on the board. The purpose is to make sure the cable is not plugged back in later up-side-down. The red stripe on a cable should always denote pin 1 on the board.

Label the other end of each cable and the pins it connects to. The pins may be on a hard or floppy drive, or on a slot connector on the back of the computer. Label, label, label! You can't label too much, but you surely can label too little. The only things you don't need to label are the power cables that go to the hard or floppy drives. They are all the same and can readily be switched between devices, and they cannot be inserted upside down. However, you DO need to label the two power cables that plug into the motherboard (from the power supply). Note especially which pin on the motherboard takes the orange cable. Plug these in later the wrong way, and you will definitely let out the smoke!

Label all wires that plug into gold pins on the motherboard. Pay particular attention to the orientation of colored wires - make liberal sketches. Especially note the orientation of the black and red wires coming from the battery pack, if your computer has one. Many don't; instead, they have a blue nicad battery soldered directly to the motherboard near the keyboard socket.

Unhook all the cables that will unplug at both ends and set them aside. Remove the retaining screws from each board that plugs into the motherboard, and take out the boards. Do not touch the golden fingers that plug into the motherboard. For one thing, oils on your hands can corrode them and cause intermittent connections later. Set the boards aside on a static free, non-conductive surface like a piece of wood. Now, unplug all power connectors and make sure all the wires are free and clear. Finally, unplug any other connectors from the motherboard.

Take out the four machine screws that hold the power supply in place, and remove it. Remove its cover and vacuum out any dust or dirt; use a small paint brush to dislodge any dust from individual components. Pay special attention to the fan blades. Brush the heavy dirt off, then wash the blades with a rubbing alcohol moistened Q-tip.

Vacuum off the motherboard, using your brush to dislodge the dust. If you are willing to try it, remove the motherboard first. Remove the two screws holding it in place, then slide it away from the power supply side of the case to disengage the plastic spacers (desktop style case). In a tower type case, you can watch the spacers disengage from the other side of the case. Thoroughly vacuum the interior of the case. Make sure any socketed chips on the motherboard are well seated in their sockets.

Now, put it all back! Start with the motherboard, then the power supply, then plug in the available cables. Next, add the other boards and cables. Plug in the keyboard and monitor, then hold your breath and turn on the power. No smoke? You are home free. Happy computing!

Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, P.O. Box 13, Port Washington, Wisconsin 53074 (Skip Douglas, KA9DDN, Editor).



Ask Elmer

Q. Donald Erickson, K9DUD of Ettrick, Wisconsin, writes "My general license expires in four months, what is the procedure for renewing it?"

A. A few months before your license expires you will get a post card from the FCC asking if you want to renew. Follow the directions on the card. In the meantime, look at your address on your license. If you changed your mailing address from that shown on your license, get a FCC Form 610 and mark box 4D (CHANGE my mailing address), enter the new address and send in the form. This will help the FCC to send you the renewal card.

Q. How can I prevent computer operators from fiddling with the Windows program I have on the network?

A. Edit the PROGRAM.INI file instructions. You can prevent saving settings on exit (set to = 1),

remove the file menu, turn the break off, allow for no exit and change the security level from 1 to as high as 4. Write down the original values before making any changes, just in case you want to return to them later.

Q. What are some popular IBM compatible programs and what are their fair prices?

A. If you like Windows, Microsoft Windows 95 Upgrade sells for \$89.99 and claims to be the easiest software yet, has simple installation and is most popular. But if you are not satisfied with Windows, First Aid 95 2.0 is a program for fixing over 10,000 Windows 95 problems, such as those unexplained crashes, and it sells for \$39.00. For those folks who hate their Windows, a close runner-up in brisk sales to Windows 95 is MicroHelp UnInstaller 3.0 for \$29.99. It is the safest way to clean Windows from your computer, guaranteed. UnInstaller claims you can free up 43 to 74 MB of memory. Finally, if you just avoid upgrading your Windows like I'm doing, you could evade problems and save a whopping \$158.98.

Q. The name for my files for Outgoing Traffic for

Southeast Wisconsin of June and July is OTSEWIJJ! Is there a better way to name files?

A. DOS limits directory and file names to eight characters. But there's a neat program, View's Long File Names for Windows 95 and 3.1, that can handle meaningful names up to 255 characters long. It costs \$17.99 and works with both directories and files. Now you can completely describe your traffic handling projects with more meaningful file names.

Q. What is counted in the long file name?

A. The 255 character limit to a long file name includes path characters. For example, \WIN95\FILENAME counts as 15 characters. But the sensible guideline is to use only 30 characters or less in a long file name.

Do you have a question or a problem? Ask Elmer! Send your questions (no telephone calls, please) to "Ask Elmer," 5003 South 26th Street, Milwaukee, WI 53221.

In July BSSS: Official Results - 1996 Wisconsin QSO Party

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WISCONSIN REPEATER DIRECTORY

Courtesy of the Wisconsin Association of Repeaters

The WISCONSIN ASSOCIATION OF REPEATERS is an organization of trustees and representatives of repeaters, state-wide, whose goal is mutual cooperation on the VHF UHF spectrum, in the voluntary spirit of Amateur Radio.

GENERAL FREQUENCY COORDINATION POLICIES

1. We attempt to place no two repeaters on the same pair closer than 120 miles.
2. We attempt to place no repeater on a 15 kHz split pair closer than 40 miles to any adjacent 30 kHz standard spacing machine.
3. We not only assist proposed repeaters in finding a frequency where possible, but we actively attempt to protect coordinated repeaters frequencies from interference whenever possible.
4. W.A.R. has suggested band plans for most of the FM spectrum, a subaudible tone plan for the State of Wisconsin and all necessary information for coordination of new or modifications to existing repeaters.

Contact the Frequency Coordinator:

David Barrow, N9UNR, Wisconsin Association of Repeaters, 1894 Elm Drive, West Bend, WI 53095-9603.

Packet: N9UNR @ N9PBY
E-mail: n9unr@execpc.com

Key

O Carrier Access
PL Sub-Audible Continuous Tone
T Touchtone
C Closed Private Repeater
A Autopatch
(CA) Closed Private Autopatch

E Emergency Power
L Link and/or Crossband
P Portable R RACES Affiliated
Z Autopatch to Law Enforcement
X Wide Area Coverage

Wisconsin Sub-Audible Tone Plan By Region

North Central - 2A, 114.8 Hz
North East - 1B, 107.2 Hz
North West - 2Z, 110.9 Hz

South Central - 3Z, 123.0 Hz
South East - 3A, 127.3 Hz
South West - 3B, 131.8 Hz

Standard Inputs Unless Otherwise Noted

-1.700 MHz for 6 Meters

-600 KHz. below 147.00 MHz, + 600 KHz to 148.00 MHz for 2 Meters

-1.6 MHz for 220 MHz, and + 5 MHz for 440 MHz

421.25 MHz TV Video + 18 MHz 425.75 MHz. TV Aural, + 9 MHz

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
ABBOTSFORD	NC	145.270	WA9ZCO	O A E Wx			WA9ZCO	06/18/95
ADAMS	NC	145.290	K9CJM	O CA E			ACARC	02/22/95
ALGOMA	NE	146.805	WB9RJB	O PL107.2			WB9RJB	04/07/95
ALLENTON	SE	442.350	N9GHT	O PL114.8 A EZ L X			FM38	09/11/95
ANTIGO	NC	145.310	KD9HH	O A E Z			KD9HH	03/28/95
APPLETON	NE	145.150	WD9FLJ	O PL107.2 CA EZAR			O CO REDX	10/10/95
APPLETON	NE	145.330	WD9FLJ	O PL107.2			F V VHF A	01/15/95
APPLETON	NE	146.655	KB9ENO	O PL107.2 A E			ECR LTD	08/07/95
APPLETON	NE	146.760	K9OQO	O PL100.0 E X R			F V VHF A	01/15/95
APPLETON	NE	147.195	N9PAO	O PL107.2			VRG	04/07/95
APPLETON	NE	442.125	WX9C	O PL100.0		*	WX9C	01/01/96
APPLETON	NE	443.650	W9IEI	O			F V VHF	01/15/95
ASHLAND	NW	52.950	KB9AMY	O CA E			KB9AMY	03/06/95
ASHLAND	NW	145.350	KB9AMY	O CA E			KB9AMY	03/06/95
ASHLAND	NW	442.350	KB9AMY	O CA E			KB9AMY	03/06/95
ASHWAUBENON	NE	443.500	KB9AMM	O CA E			TEARUG	03/20/95
BARABOO	SC	145.310	N9KXX	O PL123.0			N9KXX	04/07/95
BARABOO	SC	146.880	K9YXW	O PL123.0 E X			CWRA 6/88	08/03/95
BARABOO	SC	147.315	N9QIP	C E X L WIN PL10			N9QIP/WIN	07/24/95
BARABOO	SC	224.660	KE9KX	O TT-200 IF QRM		*	KE9KX	01/23/96
BARABOO	SC	442.950	KE9KX	O PL123.0 E X		*	DRAKE R.C	01/23/96
BARABOO	SC	443.900	N9FBF	O PL114.8 ZXL DS			FM38	09/11/95
BARABOO	SC	444.250	N9KXX	O PL123.0			BSRG	04/16/95
BAYFIELD	NW	146.610	W9BCY	O A			NLAND ARC	03/20/95
BELDENVILLE	NW	147.225	WB0WOT	O PL A E			B.A.T.S.	05/16/95
BELDENVILLE	NW	224.840	WB0WOT	O PL A E			B.A.T.S.	05/16/95
BELDENVILLE	NW	443.225	WB0WOT	O PL A E			B.A.T.S.	05/16/95
BELOIT	SC	146.670	WA9JTX	O PL123.0or*77 E R			BELOIT AR	05/28/95
BELOIT	SC	224.300	N9BUL	O CA TT			C.B.S. RG	07/14/95
BERLIN	SC	145.210	N9PSC	O			N9PSC	09/20/95
BERLIN	SC	443.850	N9AOZ	O PL123.0 A			N9AOZ	04/07/95
BLUFF SIDING	SW	146.835	WB0BDI	O		*	WINON ARC	01/01/96
BURLINGTON	SE	146.745	WB9CAS	O PL127.3			WB9CAS	04/16/95
BURLINGTON	SE	224.060	N9BBQ	O A E L			SE WI ERS	04/16/95
CALEDONIA	SE	442.500	WA9KVE	O			WA9KVE	03/20/95
CAMERON	NW	146.715	WB9PRI	O PL103.5 E Wx			WB9PRI	09/18/95
CAMERON	NW	443.650	N9KOR	O PL110.9 LTZ E			N9KOR	09/22/95
CEDARBURG	SE	442.100	KA9QLP	O PL127.3 E			KA9QLP	01/10/95
CHIPPEWA FALLS	NW	147.375	WD9HFT	O PL110.9			WD9HFT	03/20/95
CHIPPEWA FALLS	NW	442.300	WD9HFT	O PL110.9			WD9HFT	03/20/95
CLEVELAND	NE	444.175	KF9SJ	O PL107.2			KF9SJ	02/22/95
CRIVITZ	NC	145.470	KG9DM	O PL107.2			ATHELSTAN	11/21/95
CUDAHY	SE	224.900	NK9G	O T.T.			NK9G	04/16/95
DELAFIELD	SE	146.820	KE9QP	O PL127.3 CA EX Z			SEWFARS	05/28/95
DELAFIELD	SE	444.125	KE9QP	O PL114.8 E			SEWFARS	05/28/95
DORCHESTER	NC	145.270	WA9ZCO	O A E			WA9ZCO	10/10/94
EAGLE RIVER	NC	145.390	KD9PT	O PL141.3 CA DS Z			KD9PT	09/12/95
EAGLE RIVER	NC	444.400	KA9UCE	O PL114.8 AEXZ AR		*	E.S.R.G.	01/01/96
EAU CLAIRE	NW	146.910	K9UXP	O A E X			E C ARC	01/14/95
EAU CLAIRE	NW	147.240	WU9R	O E			E C ARC	01/14/95
EAU CLAIRE	NW	224.400	N9RSU	O			N9RSU	03/20/95
EAU CLAIRE	NW	443.300	KB9R	O E			KB9R	03/20/95
EAU CLAIRE	NW	444.925	N9RSU	O PL67.0			N9RSU	03/20/95
ELKHORN	SE	146.865	KB9LBR	O CA TT E A			LAARC	10/01/95
FITCHBURG	SC	444.000	KA9VDU	O PL114.8 CA L			BURG	05/28/95
FOND DU LAC	NE	145.430	K9QYC	O			N9PJQ	01/16/95
FOND DU LAC	NE	147.090	WD9ESH	O PL107.2 CA E R			FDL. RPT	07/26/94
FOND DU LAC	NE	223.900	WA4COY	O B CA			WA4COY	03/28/95
FOND DU LAC	NE	444.150	WA4COY	O PL107.2 B A			WA4COY	03/28/95
FORT ATKINSON	SC	53.090	AA9AD	O PL103.5 X Wx			S.W.R.G.	04/07/95
FORT ATKINSON	SC	145.490	W9MQB	O			TCARC	04/10/94
FORT ATKINSON	SC	224.420	N9DIT	O			N9DIT	04/10/94
FORT ATKINSON	SC	442.300	N9QIP	C RB WIN PL100			N9QIP/WIN	07/24/95
FORT ATKINSON	SC	442.750	N9DIT	O PL123.0			N9DIT	04/10/94
FRANKLIN	SE	1282.500	KD9Y	O			KD9Y	04/07/95
FRANKSVILLE	SE	223.800	KC9NG	O PL127.3			KC9NG	03/20/95
GERMANTOWN	SE	224.180	W9CQO	O			O.R.C.	07/26/95
GERMANTOWN	SE	443.225	WD9DHI	O PL114.8			W E R A	05/28/95

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
GERMANTOWN	SE	444.525	WD9IEV	O PL114.8			WD9IEV	03/20/95
GILLINGHAM	SC	147.120	K0DB	O			K0DB	08/01/94
GRANTON	NC	146.775	W9FPE	O			W9FPE	11/20/94
GREEN BAY	NE	147.075	N9PAW	O PL107.2 E DS			AHSTC	04/07/95
GREEN BAY	NE	147.120	K9GB	O PL107.2 A E Z			G B M&K	02/06/95
GREEN BAY	NE	147.270	KB9ALN	O PL107.2 L145.1			NEW RL	01/15/95
GREEN BAY	NE	147.360	K9EAM	O A Z			G B M&K	03/28/95
GREEN BAY	NE	223.940	KB9DSV	O			KB9DSV	04/07/95
GREEN BAY	NE	224.140	KZ9O	O PL107.2 A E RB			RADACTV	03/20/95
GREEN BAY	NE	443.750	N9IEE	O L146.685			RRU	01/15/95
GREEN BAY	NE	444.775	K9EAM	O CA E Z X			G B M&K	09/18/95
HALES CORNERS	SE	145.170	W9FK	O PL127.3			WARAC	07/16/95
HARTFORD	SE	53.010	K9MLD	O PL103.5			K9MLD	05/28/95
HAYWARD	NW	147.255	W9NNS	O A E Z L X A			NVWA	06/12/94
HAYWARD	NW	444.850	N9EGE	O			N9EGE	03/20/95
HILBERT	NE	53.170	KN9P	O			KA9QJN	10/03/95
HILBERT	NE	146.895	N9OBG	O PL146.2/151.4		*	N9OBG	01/22/96
HIXTON	SW	146.940	KC9YE	O			T-J RA	03/20/95
HOLCOMBE	NW	52.810	N9LIE	O			N9LIE	06/18/95
HOLCOMBE	NW	145.470	N9LIE	O PL110.9			N9LIE	06/18/95
HOLCOMBE	NW	147.345	N9QWH	O L PRK FLS&HYWR			N9QWH	06/18/95
HOLCOMBE	NW	444.525	N9LIE	O PL110.9			N9LIE	04/04/95
HOLCOMBE	NW	444.625	N9QWH	O PL110.9 AZXARWx			N9QWH	10/04/95
HOLLANDALE	SC	146.655	KB9AKM	O PL123.0			ICATS	06/10/95
HOLLANDALE	SC	444.550	N9QIP	C RB WIN PL100			N9QIP/WIN	07/24/95
HUDSON	NW	145.130	W9AVX	O CA R E			SCC RACES	06/18/95
HUDSON	NW	146.955	K0LAV	O TTON287 TTOFF128			K0LAV	07/13/95
IOLA	NC	444.650	N9NOI	O PL114.8 CA			N9NOI	09/25/95
IRMA	NC	146.730	K9GTQ	O			K9GTQ	06/18/95
IRMA	NC	146.970	KC9NW	O PL71.9 CA EZ911X*			KC9NW	01/01/96
IRON RIVER	NW	147.270	W0KMT	O PL114.8 E			W0KMT	12/19/94
JANESVILLE	SC	145.450	WD9ACY	O			R.A.T.S.	05/28/95
JANESVILLE	SC	147.075	KB9YC	O PL123.0 A			KB9YC	07/26/95
JUNEAU	SC	146.640	WB9ADB	O P.123.0			ROCK R RC	03/20/95
KAUKAUNA	NE	444.450	ND9Z	O PL107.2 CA			ND9Z	03/28/95
KEMPSTER	NE	53.010	K9MLD	O PL103.5			K9MLD	03/20/95
KENOSHA	SE	224.800	WB9LST	O PL114.8 A E			K.A.R.S.	06/10/95
LA CROSSE	SW	146.700	WA9HCZ	O RTTY 2125MARK			WA9HCZ	05/28/95
LA CROSSE	SW	146.760	K9CUT	O			LaCrossRA	07/20/95
LA CROSSE	SW	146.970	K0JYB	O A E X			RVRLNDARC	07/20/95
LA CROSSE	SW	147.090	N9ETD	O			MVARA	04/16/95
LA CROSSE	SW	444.600	WA9HCZ	O			ONA ARC	03/20/95
LA VALLE	SC	442.400	W9EBF	O PL123.0			W9EBF	04/16/95
LAC DU FLAMBEAU	NC	146.670	N9AFN	O PL107.2			N9AFN	09/30/95
LAC DU FLAMBEAU	NC	146.700	WB9TN	O PL114.8 E			WB9TN	10/17/95
LODI	SC	147.225	K9EYY	O PL123.0 A E			K9EYY	09/11/95
LUXEMBURG	NE	443.700	N9DKH	O PL107.2			N9DKH	02/15/95
MADISON	SC	53.070	N9KAN	O PL103.5 CA			S.W.R.G.	04/16/95
MADISON	SC	146.685	W9YT	O PL107.2 E			UW BARS	04/07/95
MADISON	SC	146.760	WB9AER	O PL123.0 CA EZ DS			M A R A	09/19/95
MADISON	SC	146.880	K9YXW	O PL123.0 RB O E X			CWRA 6/88	08/03/95
MADISON	SC	146.940	N9KAN	O PL123.0			C W R A	03/20/95
MADISON	SC	147.150	WB9AER	O PL123.0 CA EXZDS			M A R A	09/19/95
MADISON	SC	224.160	WB9RSQ	O PL123.0 A L Z TT			WB9RSQ	09/29/95
MADISON	SC	444.500	WB9TAE	O PL123.0 CA E L			WB9TAE	07/21/95
MADISON	SC	444.775	NG9V	O PL114.8			NG9V	08/03/95
MADISON	SC	444.925	WB9TAE	O PL123.0			WB9TAE	07/21/95
MANITOWOC	NE	145.190	WB9MFB	O PL107.2			WB9MFB	06/18/95
MANITOWOC	NE	146.610	W9DK	O TT CA E Z R A			MANCORAD	09/18/95
MANITOWOC	NE	147.030	N9GHE	O PL107.2 A R			N9GHE	09/08/95
MANITOWOC	NE	224.540	N9GHE	O R			N9GHE	09/08/95
MANITOWOC	NE	443.975	N9GHE	O A R			N9GHE	09/08/95
MARSHFIELD	NC	145.490	W9FYP	O			W9FYP	03/20/95
MARSHFIELD	NC	147.180	AA9BN	O A E Z 1444.975			MAARS	07/25/94
MAUSTON	NC	146.850	N9FVP	O			ARCOFCW	04/06/95
MEDFORD	NC	147.150	W9QHI	O A E Wx			TAYLOR	06/18/95
MENOMONEE FALLS	SE	444.425	KA9FIN	O			SHRINE	04/10/94
MENOMONIE	NW	146.610	WB9YMB	O E X			R CDR RA	06/18/95

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
MENOMONIE	NW	146.805	N9HNI	O CA	*911 #DOWN		N9HNI	11/12/95
MENOMONIE	NW	443.575	N9KIP				N9KIP	04/10/94
MEQUON	SE	443.750	WA9POV	O PL	114.8		WA9POV	07/18/95
MERRILL	NC	145.450	KB9DZG	O			KB9DZG	12/17/94
METOR HILL	NW	53.150	N9QWH	O USE	-1 MHZ NOW		N9QWH	06/18/95
MILTON	SC	146.715	K9RIJ	O CA	E		K9RIJ	03/20/95
MILTON	SC	443.175	K9RIJ	O E			K9RIJ	03/20/95
MILWAUKEE	SE	29.620	WB9ZRB	O PL	127.3		IND RP SY	07/03/95
MILWAUKEE	SE	29.680	N9BBG	O PL	127.3		W.E.R.A.	08/30/95
MILWAUKEE	SE	52.680	WB9ZRB	O PL	127.3		IND RP SY	07/03/95
MILWAUKEE	SE	52.990	N9PPX	O PL	103.5 CA Z DS		N9PPX	10/09/95
MILWAUKEE	SE	53.030	WB9TRO	O PL	103.5		W.E.R.A.	04/16/95
MILWAUKEE	SE	145.230	N9BMH	O PL	127.3 TT		N9BMH	09/25/95
MILWAUKEE	SE	145.130	N9EGR	O PL	127.3 A E L Z		MAARS	07/25/95
MILWAUKEE	SE	145.390	WB9AFB	O PL	127.3		MATC RC	04/10/94
MILWAUKEE	SE	146.625	WB9ZRB	O PL	127.3		WB9ZRB	07/03/95
MILWAUKEE	SE	146.670	W9WK	O PL	127.3		ARES	12/19/94
MILWAUKEE	SE	146.790	W9HHX	O PL	127.3 A CA		MOS E ARC	10/23/95
MILWAUKEE	SE	146.850	W9KHO	O PL	127.3		MICORS	07/26/94
MILWAUKEE	SE	146.910	WA9JOB	O PL	127.3 E Z X		MKE RPTR	09/21/95
MILWAUKEE	SE	147.000	W9PY	O PL	146.2		P.R.C.	03/20/95
MILWAUKEE	SE	147.045	W9RH	O			M.R.A.C.	04/16/95
MILWAUKEE	SE	147.105	K9IFF	C CA	E TT		K9IFF	09/07/95
MILWAUKEE	SE	147.165	WB9SDD	O PL	127.3		WB9SDD	03/28/95
MILWAUKEE	SE	223.860	WB9UOS	O			WB9UOS	04/15/94
MILWAUKEE	SE	442.650	N9VBK	O PL	114.8		N9VBK	10/17/95
MILWAUKEE	SE	443.050	N9OSK	O			N9OSK	08/22/94
MILWAUKEE	SE	443.150	W9KHO	O PL	114.8		MICORS	07/26/94
MILWAUKEE	SE	443.300	WB9TYT	O PL	114.8 CA TT D		WB9TYT	07/18/95
MILWAUKEE	SE	443.550	K9HXA	C			K9HXA	03/20/95
MILWAUKEE	SE	443.800	N9GMT	O PL	114.8 A EZ L X		FM38	09/11/95
MILWAUKEE	SE	444.200	K9HXA	C			K9HXA	03/20/95
MILWAUKEE	SE	444.325	N9CFG	O PL	114.8 CA L Z		B.I.O.S.	09/12/95
MILWAUKEE	SE	444.800	K9HXA	C			K9HXA	03/20/95
MILWAUKEE	SE	444.850	WB9TRO	C PL	A E L		W.E.R.A.	04/16/95
MILWAUKEE	SE	444.875	WB9TRO	O PL	127.3		W.E.R.A.	04/16/95
MONROE	SC	145.110	N9DMH	O PL	114.8 TT		G C ARA	10/27/95
MOUNT STERLING	SW	147.360	W9DMH	O E			W9DMH	09/08/95
NEW BERLIN	SE	147.285	W9EBF	O PL	127.3		W9EBF	04/16/95
NEW HOLSTEIN	NE	147.300	K9LGL	O A	E Z		C.A.R.E.S	10/03/95
NEW RICHMOND	NW	145.270	N9LIE	O PL	110.9		N9LIE	06/18/95
NEW RICHMOND	NW	444.675	N9LIE	O PL	110.9		N9LIE	06/18/95
NORTH WISCONSIN	SC	443.625	K9JUU	O PL	114.8 Wx X LNK		S.W.R.G.	04/16/95
OCOMOWOC	SE	442.075	N9JUU	O PL	114.8		N9JUU	09/11/95
ONALASKA	SW	444.475	W9LZQ	O			RARC	12/17/94
OSHKOSH	NE	147.240	KA9JAC	O CA	E Z RA Wx		WIN CTY E	10/13/95
OSHKOSH	NE	147.345	N9AOT	O PL	107.2		SOLAR	12/17/94
OSHKOSH	NE	443.450	W9FH	O E			W9FH	09/08/95
OSSEO	NC	145.330	N9LIE	O PL	110.9		N9LIE	06/18/95
OSSEO	NC	445.200	N9LIE	O PL	110.9		N9LIE	06/18/95
PARK FALLS	NC	147.000	WB9WHP	O L	HLCMB&HYWRD		PRICE RA	06/18/95
PARK FALLS	NC	444.750	WB9WHP	O			AG9G	05/09/94
PEWAUKEE	SE	147.210	WB9AKC	O PL	127.3		WCTC ARC	06/18/95
PEWAUKEE	SE	443.125	WB9AKC	O PL	114.8 or 127.		WCTC ARC	06/18/95
PLAIN	SC	442.100	KA9VDU	O PL	114.8 L		BURG	05/28/95
PLYMOUTH	NE	147.060	NF9R	O PL	107.2		SCARC	04/10/94
PLYMOUTH	NE	224.940	NF9R	O			SCARC	04/10/94
PLYMOUTH	NE	444.100	KD9TZ	O PL	107.2		S CTY 440	03/20/95
PLYMOUTH	NE	444.350	WE9R	O PL	114.8 E L X		WERA	11/01/94
PORT WASHINGTON	SE	146.970	W9CQO	O PL	127.3 CA E X Z		O.R.C	07/26/95
PORT WASHINGTON	SE	147.330	WB9RQR	O PL	127.3 CA EXWx		OZARES	07/28/95
PORT WASHINGTON	SE	443.525	WB9RQR	O PL	114.8 CA E X Z		OZARES	07/28/95
POUND	NC	146.685	KA9JVH	O PL	107.2		KA9JVH	03/20/95
POWERS LAKE	SE	443.925	K9XN	O PL	114.8 X		LAKARS	10/15/95
RACINE	SE	53.210	N9GKH	O PL	127.3		N9GKH	05/28/95
RACINE	SE	147.270	W9UDU	O CA	E Z I R Wx		LAKESHORE	07/21/95
RACINE	SE	442.000	W9UDU	O PL	127.3 CA		LAKESHORE	09/16/95
RACINE	SE	442.200	N9OEZ	O	103.5 + MDC LINK		C.A.R.S.	09/25/95
RACINE	SE	443.950	KA9JMK	O PL	127.3		KA9JMK	06/18/95
RACINE	SE	444.050	WA9LOK	O			WA9LOK	10/03/95
RACINE	SE	444.950	WA9BDX	O PL	114.8		WA9BDX	04/10/94
RHINELANDER	NC	145.210	KA9TCC	O CA	E UC		NWARC	06/12/94
RHINELANDER	NC	146.940	W9ZZZ	O A	E Z		RHIN RP A	09/22/95
RICE LAKE	NW	147.030	WB9WFG	O			BAR ARES	03/28/95
RICE LAKE	NW	443.700	WB9PRI	O			WB9PRI	09/18/95
RICHLAND CENTER	SW	146.910	WB9SLI	O PL	131.8		P V RP A	09/20/95

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
RIDGEVILLE	SW	145.390	N9BOE	O E	Z		MCARC	04/16/95
RIDGEVILLE	SW	444.850	KB9EBX	O PL	167.9		KB9EBX	03/20/95
RIVER FALLS	NW	443.800	K9ZMA	O			K9ZMA	05/28/95
ROBERTS	NW	147.330	KA9YRV	O PL	110.9		SCVRA	09/22/95
RUBICON	SC	145.350	WB9KPG	O A	E Z		WB9KPG	01/11/95
SAINT FRANCIS	SE	444.825	W9JZ	O PL	127.3 A TT Z		WJ9Z	09/27/95
SAINT LAWRENCE	SE	146.730	N9LZW	O PL	127.3 X R A		W.C. ARC	10/03/95
SAYNER	NC	145.130	N9QGG	O A	E Z911 X		MERRIL RA	08/31/95
SCANDINAVIA	NE	444.900	N51IA	O PL	114.8		N51IA	06/18/95
SHAWANO	NC	145.350	KA9NWY	O PL	114.8 CA RBXZE		KA9NWY	07/25/94
SHAWANO	NC	224.480	KG9AL	O PL	114.8 E		KG9AL	02/15/95
SHEBOYGAN	NE	147.255	N9REH	O PL	127.3 CA		N9REH	04/16/95
SISTER BAY	NE	147.180	W9A1Q	O PL	107.2 CA E		DC ARC	07/25/95
SLINGER	SE	52.830	W9MQD	O			W9MQD	11/01/94
SOLO SPRINGS	NW	145.490	K9ASC	O A	E Z		* DC RACES	01/28/96
SOLO SPRINGS	NW	147.390	N9QWH	O PL	110.9 AZLARWx		N9QWH	10/04/95
SPOONER	NW	147.135	KE6WF	O E	X Z L223.2MHZ.		KE6WF	03/20/95
SPOONER	NW	444.800	KE6WF	O			KE6WF	03/20/95
SPOONER/HERTEL	NW	147.300	WB9RBD	O CA	E Z		B.A.R.S.	03/20/95
SPOONER/HERTEL	NW	224.500	WB9RBD	O A	E Z		B.A.R.S.	03/20/95
SPOONER/HERTEL	NW	443.500	WB9RBD	O A	E Z		B.A.R.S.	03/20/95
STEVENS POINT	NC	146.670	WB9QFW	O A	E Z		CWRA LTD	03/28/95
STEVENS POINT	NC	146.985	W9NN	O A	E Z		CWRA LTD	03/28/95
STEVENS POINT	NC	444.700	K9CNW	O E	CA L		K9CNW	07/19/95
STOUGHTON	SE	443.325	N9LHS	O PL	114.8		N9LHS	03/20/95
STURGEON BAY	NE	146.730	WB9YUY	O PL	107.2 R E		WB9YUY	04/07/95
STURGEON BAY	NE	147.210	W9A1Q	O CA	A E X Z		DC ARC	07/25/95
STURGEON BAY	NE	444.000	WB9YUY	O			WB9YUY	04/07/95
STURGEON BAY	NE	920.000	WB9YUY	O			WB9YUY	04/07/95
STURGEON BAY	NE	1282.100	WB9YUY	O			WB9YUY	04/07/95
STURTEVANT	SE	29.640	WA9ZY0	O			WA9ZY0	04/10/94
STURTEVANT	SE	224.740	WA9ZY0	O			WA9ZY0	04/10/94
SUPERIOR	NW	146.760	W9BWK	O			* T P A RA	01/28/96
SUPERIOR	NW	146.820	WA9VDW	O PL	203.5 A DS		* T P T G	01/28/96
SUPERIOR	NW	444.900	WA9KLM	O A	E		WITC ARC	04/10/94
TIGERTON	NC	147.135	KF9TS	O PL	E A R		KF9TS	06/18/95
TOMAH	SC	444.800	N9QIP	C RB	WIN PL100		N9QIP/WIN	07/24/95
TOMAHAWK	NC	53.110	N9CLE	O P			TOM RP A	05/28/95
TOMAHAWK	NC	145.430	N9CLE	O A	E Z911 X		TOM RP A	05/28/95
TOMAHAWK	NC	223.760	N9CLE	O			TOM RP A	05/28/95
TOMAHAWK	NC	444.575	N9CLE	O			N9CLE	05/28/95
TREVOR	SE	442.600	KA9VZD	O PL	E A Z		KA9VZD	03/20/95
UNION GROVE	SE	442.250	N9OIG	O PL	114.8 L444.87		N9OIG	03/20/95
WABENO	NE	145.110	KF9DB	O PL	127.2 L147.2		NRL	01/15/95
WALES	SE	224.120	WB9DRO	O PL	107.3		WB9DRO	04/07/94
WAUKESHA	SE	147.390	N9KS	O PL	141.3 DS		EARS/KMRA	09/25/95
WAUPACA	NC	146.925	N9BKJ	O E	X A R Z		N9BKJ	11/02/95
WAUPACA	NC	147.390	WA9FDC	O X	A R Wx		W'ACA RC	09/20/95
WAUSAU	NC	53.450	W9BCC	O			R.M.R.A.	07/19/95
WAUSAU	NC	146.640	W9SM	O PL	114.8 AELXZ911*		W.V.R.A.	01/01/96
WAUSAU	NC	146.820	W9BCC	O CA	E X L		R.M.R.A.	07/19/95
WAUSAU	NC	147.060	W9KRY	O PL	114.8 X CA E		K9NW	07/19/95
WAUSAU	NC	224.640	W9SM	O PL	114.8 AELXZ911*		W.V.R.A.	01/01/96
WAUSAU	NC	421.250	AD9W	O E	L AURAL + 4.5		RMATS	04/10/94
WAUSAU	NC	421.250	AD9W	OEL	VIDFM AUD+4.5		RMATS	04/10/94
WAUSAU	NC	421.250	AD9W	OEL	VIDFM AUD+4.5		RMATS	04/10/94
WAUSAU	NC	923.250	AD9W	O E	L AURAL + 4.5		RMATS	04/10/94
WAUSAU	NC	1250.000	AD9W	O E	L AURAL + 4.5		RMATS	04/10/94
WAUSAU	NC	443.325	KA9SOT	C			KA9SOT	05/28/95
WAUSAU	NC	443.750	K9CNW	O PL	71.9 CA X L		K9CNW	07/19/95
WAUSAU	NC	443.950	K9CNW	O			K9CNW	07/19/95
WAUSAU	NC	444.100	W9SM	O PL	114.8 AELXZ911*		W.V.R.A.	01/01/96
WAUSAU	NC	444.300	W9BCC	O PL	114.8 X E		R.M.R.A.	05/28/95
WAUSAU	NC	906.000	W9BCC	O X			R.M.R.A.	07/19/95
WEST ALLIS	SE	224.520	KA9JCP	O A	E		KA9JCP	11/21/95
WEST BEND	SE	223.820	N9NBN	O CA			N9NBN	12/17/94
WEST BEND	SE	443.425	N9NBN	O PL	114.8 CA		N9NBN	12/17/94
WEST MILWAUKEE	SE	147.135	NY9T	O PL	141.3 DS		NY9T	09/19/95
WEYERHAEUSER	NW	145.170	KA9PZX	O			MAGIC	02/06/95
WINNECONNE	SC	224.500	KB9IE	O CA			P.G.R.A.	09/05/94
WISCONSIN RAPIDS	NC	146.790	W9DQA	O PL	114.8 DS		MIDST RA	05/09/94
WISCONSIN RAPIDS	NC	147.330	K9PJB	O E			WI AIR RA	06/18/95

Badger State Smoke Signals • May 1996 • Reprinted by permission

Vanity Call Signs Open

Continued from front page

have to be in the region designated in the sequential system for the call sign requested. A call sign requested by a former holder may be in any region.

Request by Close Relative of Former Holder Now Deceased (Primary Station): For your primary station, you may request a call sign that was previously assigned to the primary, secondary, repeater, auxiliary link, control, or space station of your now-deceased spouse, child, grandchild, stepchild, parent, grandparent, stepparent, brother, sister, stepbrother, stepsister, aunt, uncle, niece, nephew, or in-law. You may request the former call sign of a close relative now deceased even though it has been unassigned for less than two years. Upon the death of the

By Bob King, KA9GNY
411 Lynn Avenue, Baraboo, WI 53913

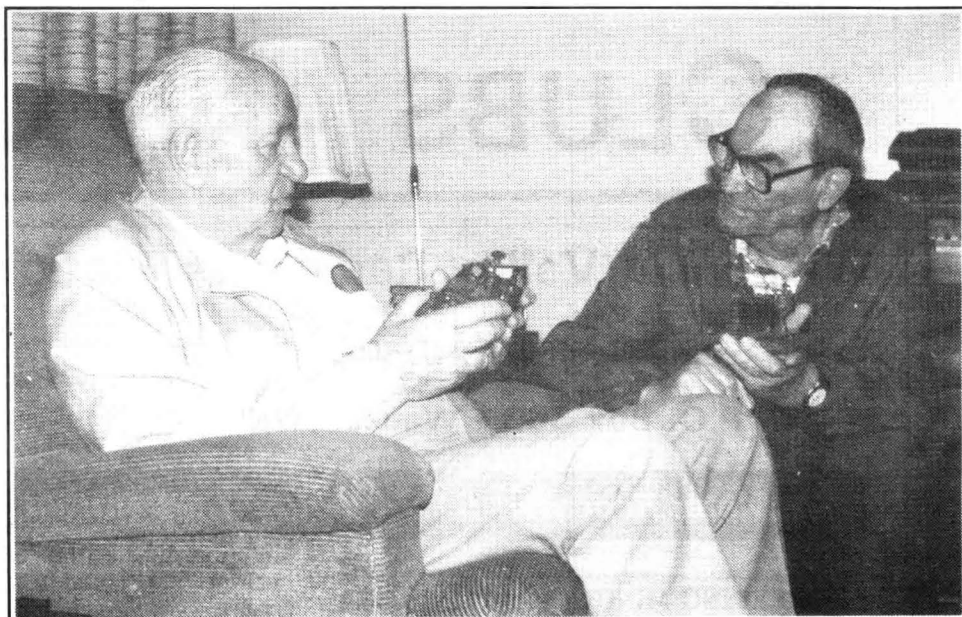
The Milwaukee-Madison Chapter (MW) Chapter of the Morse Telegraph Club met Saturday, April 27 at the Mid-Continent Railway Museum in North Freedom to celebrate the 205th anniversary of the birth of Samuel F.B. Morse, inventor of the telegraph. About 25 members were present, and enjoyed a morning of talk about old times in railroad depots and Western Union offices, and listening to tapes of various telegraphers. We had a dial-up Morse set in action, and contacted stations in Huntington, West Virginia, the Grand Chapter in Chicago, in Laramie, Wyoming, and the Alaskan Chapter in Fairbanks, Alaska.

If you have never heard of dial-up Morse, we use a Radio Shack DCM-6 300 baud modem connected to a telephone line. The key is hooked into a converter, which changes Morse signals to tones which, in turn, are changed to binary code in the modem. The procedure in receiving is reversed. We dial another station on the telephone line. When contact is made, the calling station goes to "originate" on the modem, and the receiving station goes to "answer". The on/off button on the modem is switched to on, and we hang up the phones and send and listen with a standard 150-ohm telegraph sounder. This system was developed by several Morse Telegraph Club members after Western Union stopped giving us a complete wire to every chapter in the U.S. and Canada.

All former officers of the MW Chapter were re-elected: Fred Becker, W9KKM, Wisconsin Dells, President; Delrosa Bruns, Middleton, Vice President; Jim Reidelback, Wisconsin Dells, Secretary/Treasurer; and Bob King, KA9GNY, Wire Chief. Bob supplied the dial-up system and recorded tapes.

All enjoyed a delicious chicken dinner at the Railroad Inn in North Freedom.

"Digital Bus" Makes Baraboo Stop



Bill Snyder, W0LHS, of Fargo, North Dakota (at left), paid a visit to the Circus City in early May for the opening of the Circus World Museum's summer season. While in Baraboo, Bill visited Bob King, KA9GNY, who gave Bill the "cook's tour" of his collection of telegraphy apparatus. Bill writes the monthly column "The Digital Bus" in *Worldradio*. To send packet traffic to Bill, the address is W0LHS@W0LHS.#SEND.USA.NOAM. He'd like to hear from you.

- Photo by Jim Romelfanger/K9ZZ

HERE AND THERE

Continued from page 5

Sheboygan, WI.,

The antenna, Randy Kozloski, N9GDW, Green Bay, WI, and

The *ARRL Manual*, donated by Chuck Sholten, W9BZU, won by James Lulachek, Waukesha, WI KF9GG.

- Glen DeBaker

Eau Claire Amateur Radio Club Has Home Page on Web

The homepage address for the Eau Claire Amateur Radio Club is as follows:

<http://www.edp.net/~mceraso/ECARC.html>

(case sensitive)

E-mail inquiries about the Eau Claire Hamfest may be sent to:

mceraso@mail.edp.net

- Melanie A. Ceraso, N9QWE

Got an Internet Address?

Badger State Smoke Signals will publish Internet addresses of radio amateurs in the near future. Dave Knaus, WA9POV, has offered to take on the task of compiling that list. We also will list Wisconsin area Web pages.

Send your name and call, and your Internet address - and your club's Web page info - to:

wa9pov@execpc.com

The listings will be sorted by (most likely) call sign.

Our thanks to Dave (a fellow Trekker) for the help!

- Editor

LAD-ARTS, INC.

1228-12TH AVE S
PO BOX 433
ONALASKA, WI 54650-0433
608-783-8211

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PRB-1 in Wisconsin: Down but not Out:

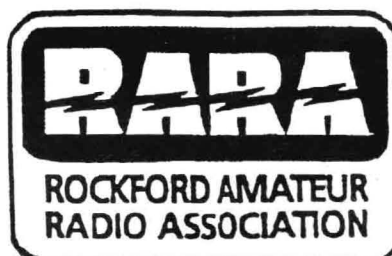
Badger State Smoke Signals commends and thanks all who supported the effort to codify the Doctrine of Federal Preemption (PRB-1) as Wisconsin state law. Special thanks are extended to Gary Schwartz, K9GS, Verne Teske, W9RYA (ARRL State Government Liaison), Sen. Richard Grobschmidt (D-Milwaukee) (Senate sponsor), Rep. Ben Brancel (R-Endeavor) (Assembly sponsor), Dave Mancel, aide to Rep Brancel, Rep. Scott Jensen, Mack Brophy, N9NTB, who testified at the Senate Committee hearing, and to those who took the time and effort to ask their senators and assemblymen to support the bills (AB 900 and SB 544.) Although partisan bickering and the last-minute rush at session's adjournment killed the bill, Gary, K9GS, is already working on beginning the process all over when the next legislature convenes in January, 1997. Sad to say, apathy on the part of Wisconsin amateurs may have played a major part in the bill's death. Not enough hams contacted their senators and assemblymen. Let's not have that happen next time.

- Jim Romelfanger, K9ZZ, Editor

1996 Rockford Hamfest

NEW DATE

NEW LOCATION



Rockford Amateur
Radio Association
PO Box 8465
Rockford, IL.
61126-8465



JULY 27 1996

Hamfest / Computer Fair : TIME: 8 AM TO ??

MARK YOUR CALENDARS NOW!!!

PLACE: WINNEBAGO CO. FAIRGROUNDS, PECATONICA, IL.

AMATEUR DEALERS / Electronic items

USED GEAR FLEA MARKET WITH FREE TAILGATING (with gate admission)

V. E. TESTING 9: to 11: , GREAT FOOD AT AFFORDABLE FAMILY PRICING.

COMPUTER SALES NEW / USED WITH PERIPHERALS / SOFT/Hardware more!

ARTS AND CRAFTS FOR THE LADIES (bring your wife)

CLEAN FACILITIES WITH HANDICAP ACCESSIBILITY

TICKETS: ADVANCE SALES \$4.00 Until July 5th. GATE SALES \$5.00

10 AND UNDER FREE

SASE with adv. ticket orders please.

PRIME TABLES WITH ELECTRIC: \$ 15.00 Adv. register. (by July 13)

STANDARD TABLE w/ elect.: \$10.00 1 gate pass w/each table.

VENDORS MUST SUPPLY DROP CORDS FOR ELECTRIC (TABLES ARE 8 FT. BANQUET, drive in , setup Friday evening til 9:00 and/ or Saturday morning 6:00 to 7:45

FOR FURTHER INFO CONTACT:

MARSHA PLASTER S (815) 399-9233 or DIANA WHITE (815) 645-8545

Talk in 146.61 rpt.

Yes Door prizes too!!!

Free OVERNIGHT CAMPING

Also check the Steam engine show at Freeport Fairgrounds. Largest running steam engine in USA, Steam Train Railroad rides etc. July 26, 27, 28 15 miles away on the South edge of Freeport. Steam threshing engines, tractors, other items of bygone times. Bring your family and make a weekend of it.

PARTICIPATING CLUBS AND ORGANIZATIONS

Wisconsin Valley Radio Association

Paul Neubauer, N9IOG, Secretary

P.O. Box 363 • Wausau, WI 54402

Six Meter Repeater: 51.74 Input/51.24 Output

MEETING MINUTES

7 May 1996

The meeting was called to order by President N9SDI who introduced the new board: President N9SDI (Jim), Vice President N9OWD (Dan), Secretary N9IOG (Paul), Treasurer N9IAB (Mike), Program Chairman N9LIA (Jack), N9SDL (Kim, not present), N9TTA (Tom).

Minutes from the April meeting were read and accepted then N9IAB gave the treasurers report: Cash on hand \$260.00, Checking \$150.53, Savings \$2618.02.

Our tax-exempt application has not yet been dealt with and N9LIA now has the papers for this.

KB9DED (Mike) said he recieved a call from N9TVT (Reed) in which 'TVT said he would not be available as a WVRA net control due to deteriorating eyesight. KF9RU (Chad) is now net control in his place. KB9DZG (Phil) mentioned that a fifth Wednesday will occur this month and suggested a net control be found for this. KF9RU volunteered to cover it.

Emphasis was made that the new board take action to see that the minutes got in to *Badger State Smoke Signals* on a reliable basis. K9MIX (Brent) added that any upcoming programs should be listed so members could decide if they wanted to attend a meeting for the program.

A motion was made and passed to pay the Wisconsin Association of Repeaters.

N9LIA (Jack) asked for ideas for upcoming programs, including the possibility of tours and programs relating to HF activities. He plans on having several months of program ideas with the immediate two months always being solid.

It was suggested that ham classes for code, no-code, or upgrade be explored. Preferably with classes starting in the fall or early winter. Also the possibility of regular VE testing sessions was suggested. General class amateurs can now become VEs. Please contact N9IOG (Paul) if you want to help with testing. He can be reached at 536-2744 or e-mail at pauln@tmwcc.com

pauln@tmwcc.com

The possibility of a WVRA hamfest was brought up. Suggestions included that if one be held planning should start immediately and be held some time next year. Also one weekend day should be chosen to minimize interference with other relatively close events and then we should maintain that as the hamfest weekend yearly. Anyone wishing to help should contact a member of the board.

N9IAB (Mike) said that the DVR is working, but he left it blank as the repeaters currently lack battery back-up and he does not want to be constantly reprogramming it. He then asked that the club approve purchase of a new gel-cell battery. KB9DZG offered a donation of one of the gel cell batteries he has. There was discussion of whether a new battery would be better than a used one. A vote was held and the donation was accepted.

N9IAB asked about the reconfiguring of the six meter repeater which is currently on a 500 kHz split. The new configuration would be to bring it to the standard six meter split. The repeater may need a new final tube and it would be about 3 weeks for any new crystals to arrive. N9IAB made a motion to check the repeater condition before going ahead with re-coordination and re-configuration. It passed.

The meeting was adjourned and KB9DED (Mike) gave his talk about what a person weather spotting may want or need. This was not for simple weather watching, but also disaster preparedness in case the worst should happen.

Coming Attractions

June - RF and Power grounding. The meeting will be at the Greenheck building on Ross Avenue at 7:30 pm, Tuesday, June 4.

July - Club Picnic. The club picnic is tentatively scheduled for Sunday July 14. Suggestions for a location are welcome.

Mancorad Radio Club

John Meyer, N29Z, Secretary

P.O. Box 204 • Manitowoc, WI 54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

MEETING MINUTES

May 8, 1996

The May meeting of the ManCoRad Club was called to order at 7:35 p.m. by club president, Red, N9GHE.

A motion to approve the minutes of the April meeting as printed in the *Smoke Signals* passed unanimously. The treasurer's report was read by Glenn, AA9MT and was approved as read.

OLD BUSINESS

Barney, N9XER, gave an update on the local bike race. Barney went to a scheduled meeting only to find out that the meeting apparently had been cancelled without notifying the club. He has had no

further word from the organizing group. The unofficial consensus of the members present was to drop our participation in the event for this year.

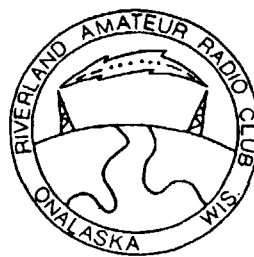
The Cobia submarine special event station is "on" for Saturday, August 17th, from 9 a.m. to 5 p.m. Len and Eric, WD9IAB, will be coordinating the event. Your secretary has contacted the Milwaukee club that expressed an interest in operating from the sub and has invited them to join us. The event will be publicized in both *QST* and *CQ*.

Red reminded everyone to get their reservations in for the banquet after the hamfest.

Everyone was reminded that there will

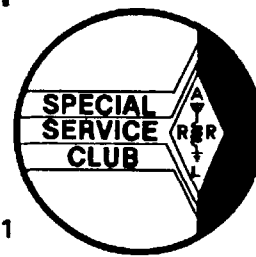
Continued on page 11

Riverland Amateur Radio Club



Dan Abts, N9PZC
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES

May 7, 1996

The May meeting of the Riverland Amateur Radio Club was called to order at 6:59 p.m. on May 7, 1996 by President Duane, W9HWQ. There were 25 people in attendance.

The minutes of the April meeting were approved as printed in the *Badger State Smoke Signals*.

Judy, N9LGV, reported that of the 90 members we had for 1995, 69 have paid their dues for 1996. The report was accepted as read.

Programs: Feroz, WU9N, reported that for tonight's program there would be a silent auction of items club members bring to the meeting. At the June meeting Red, WO0W, will talk about lightning protection. In July, the program will be on receiving WEFAX and SSTV.

440 Repeater: Dan, N9PZC, reported that the person who was going to help modify the Motorola Moxy radios to bring them down to the 440 frequency needed, backed out after looking into it. The committee is looking into using a Motorola radio donated by Dick, W9DMH, and Motorola Mitrek radios. They have sent for some information on modifying Motorola radios for use in repeaters.

Net Manager: Karl, KB9EQI, has resigned his position as net manager. We are looking for a new person to take over this position as well as volunteers to run the net. Copies of the script will be available at the next meeting. If no one starts the net by 8:02 p.m. Sunday, someone listening should run the net. All that is needed is a 2 meter radio. The repeater goes in and out of net mode automatically.

ARES/Skywarn: Kent, W9LZQ, reports that the rotor from the National Weather Service site is in for repair. The vertical antenna is working. Spotters are encouraged to listen to the 146.97 repeater during storms in to see if deployment is needed.

Property Manager: Bob, N9LZK, reminded us that the trailer was in the parking lot for our inspection.

Swapfest: Dick, K0JYB, said he has applied to the ARRL for sanctioning the hamfest. This gets us free mailing labels, advertising in *QST*, and publications to sell for a 10% profit. Dick will be mailing flyers to clubs around the area and placing ads in *Nuts & Volts* and *Amateur Radio Trader*. Dick made a motion to spend \$25 for a quarter page ad in *Badger State*

Smoke Signals. The motion was seconded by Feroz, WU9N, and passed.

146.97 Repeater: Walt, AA9AW, reports that the intermittent problem with the repeater seems to have been fixed.

Field Day: Karl, KB9EQI, was not present.

VE: Bill, KE9XQ, asked us to write our Congressional Representatives and urge them to support HR 3207, which protects ham volunteers in the VE program from frivolous lawsuits. The next test session is scheduled for May 25, 1996 at 7:00 p.m.

OLD BUSINESS

Rick, KV9U, has the Constitution and the Standing Rules of the club and the repeater operation guidelines ready for the members of the club. Bob, N9LZK, made a motion to have 125 copies printed and distributed. Frank, KB9LAB, seconded the motion and it passed.

Dan, N9PZC, reported that he received the application form for being a Special Service Club as well as the Annual Report for the ARRL. He will finish filling them out and mail them in this week.

The motion to look into a new trailer that was tabled from the last meeting was brought up for discussion. After considerable discussion, Frank, KB9LAB, made a motion to table the previous motion again so we could get cost estimates for a new trailer. Dick, K0JYB, seconded the motion and it passed. Bill, KE9XQ, Red, WO0W, and Bob, N9LZK, will look at pricing for a new trailer.

NEW BUSINESS

Walt, AA9AW, passed around a sign-up sheet for providing communications Sunday June 2, 1996 when the Olympic Torch passes through the city.

The nominating committee to find a candidate for a new treasurer submitted Roger, KA9BKK. After asking three times for nominations from the floor and receiving none, Roger was elected.

Dick, W9DMH, was awarded a one year membership in the club for donating a Motorola radio for the 440 repeater project.

Feroz, WU9N, made a motion at 8:08 p.m. to adjourn the meeting. It was seconded by Rick, KV9U, and passed.

*Respectfully submitted
by Dan, N9PZC*

WISCONSIN NETS ASSOCIATION LTD.

Beginner's CW Net: Wisconsin Novice Net (WNN)

The Wisconsin Net Association is offering a beginners' CW traffic net every evening at 6 p.m. local time (summer/winter)! The frequency is 3723 kHz, and net control stations are loud and clear from south and central Wisconsin, making it easier for you to copy. The net is called The Wisconsin Novice Net, WNN, for short.

WNN gives the CW beginners:

- A chance to copy slow CW from familiar fists,
- Instruction and practice in Traffic handling skills,
- A place to make new ON-THE-AIR

friends, and

- A regular, set place to meet friends.

CW net skills translate into good on-the-air technique ANY time. Also, having a set schedule, friends will know they can find you here at this time, like a mini-BBS.

Normal speed for the net is 8 - 10 WPM, but the NCS do their best to match the speed at which you check in.

Listen for a few nights and you will see how it works. Jump in anytime! No one will complain if a mistake is made. This is a learning place and no-one is perfect!

Further information is available from N9MXW/Tom at 225 Columbus St., Lodi, WI 53555, or by phone at (608) 592-4149.

Mancorad Radio Club

Continued from page 10

be no regularly scheduled club or board meetings during June, July or August. However, there will be a special board meeting for a hamfest wrap-up on the first Wednesday of June at 6:30 p.m. in the clubroom. All club members interested in finding out how the club did in the hamfest are invited to be there.

NEW BUSINESS

Designs by Kuby, N6JSX, for a club banner and for magnetic signs for members were circulated. A motion was

made by Len, N9QFO, seconded by Terry, N9PZT, to purchase a banner for the club. The banner should be available for this coming Field Day, as well as for other club events thereafter.

Dave, KB9KQA, outlined plans for Field Day, June 22-23, and handed out a synopsis of equipment needed to run the event. Plans are to operate from Maritime Park, at the west end of the parking lot west of the submarine. A motion was made by Dave, seconded by Terry, for the club to support the event -- the motion passed. Setup will commence at noon on the 22nd and, depending on participation, will continue round-the-clock until 3 p.m. on Sunday. Dave passed around a signup sheet for those interested in participating and/or donating equipment for the event. Get in touch with KB9KQA to sign up.

Ron, WS9X, reported on the recent rocket launch in Sheboygan. He had planned to show a video he took of the event, but as there was no VCR available tonight at the meeting, it will be postponed until autumn. Clancy passed around photos he took of the event -- some very good photos of a lot of rockets.

Ron also mentioned T-hunts -- there have been two so far. Barney won the first, and Ron, the second. CBarney tried to throw the hunters off by placing the "fox" in the same park that it had been in on the previous hunt! There will be one more hunt in May, which will be announced on the 2M nets. There are also plans for an "on-foot" fox hunt in a local park sometime this summer. Lorraine, KB9ETC, has a Yaesu HT for sale that would be a good one for T-hunts and for


general club use. A motion to purchase the HT was made by Glenn, seconded by Dick, N9QFY -- the motion was approved.

A call was made for VE's to assist at the exams in conjunction with the hamfest. Carl, KA9ZTF, Ken, WB9OBX, Yogi, WN9Q, and Bill, WD9ERN, volunteered to help.

There was a brief discussion of the possibility of moving the hamfest to sometime during the summer -- warmer weather and no competition from Dayton. Further discussion will follow.

A motion to adjourn was made by Dick, seconded by Terry. The meeting adjourned at 8:17 p.m.


Submitted for approval:
John Meyer, N29Z, Secretary



Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799

Club Repeater: 146.73 MHz



MONTHLY MEETING MINUTES May 9, 1996

The May 9, 1996 meeting of the Washington County Amateur Radio Club was called to order at 7:30 p.m. by President Walt Gossfeld, N9LLS. There were eighteen members and two guests present.

The minutes of the April membership meeting were read by Secretary Tom, N9LZW. There was a motion by Gary, W9XT, seconded by Don, K9GR, to approve the minutes. Motion Carried.

The Financial Report was read by Treasurer Dave, KA9RNU. The club now has 44 members. There was a motion by Bob, KG9CW, seconded by Larry, WB9BVB, to approve the Financial report. Motion carried.

CORRESPONDENCE

Tom, N9LZW, said that he mailed a letter to Assembly Minority Leader Scott R. Jensen regarding Senate Bill 544 which addresses amateur radio tower regulation. Mr. Jensen wrote, "I am a strong sponsor of the bill. I hope it passes in May."

Tom also read the announcement regarding the Wisconsin Novice Net. The net is called at 6 p.m. every evening on frequency of 3723 kHz. You are invited to check in any time.

Tom mentioned that he had submitted the 1996 Annual ARRL Club Report Form. We are just meeting the 51 percent requirement of club members who are also members of the ARRL. Tom said that with an ARRL membership you also receive a subscription to QST magazine.

REPEATER COMMITTEE REPORT

A Repeater Committee Report was given by Committee Chairman Don, K9GR. Don explained that he was aware that at least one station had experienced some difficulty with the repeater in the Menomonee Falls area but that the problem had gone away by the time he had a chance to check it out.

Don announced that his packet station is now on 145.69 with a mailbox call of K9GR-1 if anyone wants to leave him a message regarding the repeater. He also explained that he believes the repeater can be improved further with some additional tuning. In response to a question, Don estimated that we had about 19 to 20 watts of power going into the feedline.

Maury, W9MQD, introduced a new ham who was visiting us for the first time. He was Ed Fral, KB9NKL, of the St. Michael's area. Ed explained that he became aware of our club at the AES Superfest '96. Members then took time to introduce themselves to Ed and everyone present.

Walt explained that he had contacted the Chief of the St. Lawrence Fire Department for authorization to use the grounds for Field Day on June 22 and 23. Rip, W9SIZ, was not present so we could not discuss Field Day plans further at this time.

Jim, KB9LTW, questioned the WAR membership that the club had approved at the March meeting. Tom, N9LZW, said that the membership application and fee have been submitted.

Larry, WB9BVB, reported that next Saturday's breakfast was scheduled for 9:00 a.m. at the Slinger Inn.

There was some discussion regarding a club banner or sign of some sort for events such as the AES Superfest. Jim, KB9LTW, has

offered to undertake this project.

There was a discussion about jackets, t-shirts, and sweatshirts. Tom, N9LZW, said he had contacted the company regarding updated prices and they haven't gotten back to him yet.

OLD BUSINESS

Walt, N9LLS, said that although Bill, N9IBU, had offered to take on the Emergency Coordinator job, he would be unable to because of a conflict with his employment. Chris, N9ZES, has offered to become the new ARES Emergency Coordinator and Bill, N9IBU, will be assisting him with these responsibilities.

Bill, N9IBU, explained that severe weather has been moving toward our area from the south and that it is important to become prepared.

NEW BUSINESS

Brian, N9LOO, introduced a representative from the Riveredge Nature Center who is coordinating the River Valley Ride. This is a bicycle ride with proceeds going to benefit the Riveredge Nature Center. Some parts of the routes are through Washington County. The representative explained that difficulties with communications last year prompted her to turn to the amateur radio clubs for help. She understood there was a conflict with Field Day taking place on the same weekend. Brian, N9LOO, will take the responsibility of coordinating hams who want to help.

Brian, N9LOO, also discussed the possibility of having a club 'Home Page' on the Internet. This could include a club roster, meeting minutes, etc. Approximately half of the members present had access to the Internet and thought it was a good idea. Bob, AA9EF, questioned the cost of establishing a Home Page. Brian will research the cost of a Home Page account.

Tom, WD9GGA, reported that West Bend's Supersaver food store had a fundraising method that the club could consider. Groups sell hamburgers, hot dogs and refreshments outside the store. Someone suggested that a packet station demonstration could be included with this. Walt, N9LLS, joked that Larry, WB9BVB, our food chairman should be involved with anything involving food.

Tom, N9LZW, informed the membership that the club library now included an ARRL book entitled *Spark to Space*. This book was donated to the club at the last AES Superfest.

Jim, KB9LTW, mentioned that Kevin, N9LTH, recently was an eyewitness to a very serious two vehicle accident. Kevin used his Amateur Radio to make almost immediate notification of police, rescue and fire services. Tom, N9LZW, heard Kevin's frantic report of "Emergency" on the 146.73 repeater and made notification to the Washington County Sheriff's Department.

Kevin actually made several reports in rapid succession. First came his report of a very bad accident. Then his observation that at least five people were injured and that more than one ambulance would be needed. The third transmission was to request a fire department, reporting that the van was becoming engulfed in flame.

Jim, KB9LTW, had been mobile nearby when he heard Kevin reporting the accident. Jim drove to the scene and said that when he arrived, Kevin and another heroic citizen were obscured in the smoke while they rescued a 64

year old woman from her overturned car. Her car had been struck broadside by a van driven by an unlicensed 15 year old boy. Her car was now in danger of catching fire from the burning van alongside it.

The van had eleven passengers in addition to its driver. The van went airborne as it crossed two sets of railroad tracks nearby and then failed to stop for a stop sign and also failed to yield the right of way to the women's vehicle. Several ambulances and two rescue helicopters were dispatched to the scene.

Despite the efforts of all who were involved, the woman's life could not be saved. She died following some emergency surgery at the hospital. Kevin's presence and assistance nearly saved her life. His effort was not in vain, however, because his presence was very comforting to this woman, and it was important for her family to know that everything possible was done to minimize her pain and suffering.

There being no further new business, the President entertained a motion to adjourn. There was a motion by Bob, KG9CW, seconded by Bill, N9IBU, to adjourn. Motion carried. Meeting adjourned at 8:20 p.m.

Respectfully submitted:
Tom, N9LZW, Secretary

HOMEBREW CONTEST

Following the meeting, the WCARC held its Annual Homebrew contest. Jim, KB9LTW, submitted 3 antenna projects. He had a 2 meter quad which he built from pvc and other fiberglass material. This was affectionately called his Fleet Farm antenna. Jim also had built a 5/8 wave 2 meter mobile antenna from brazing rod and piano wire. Jim's third antenna was an HT whip antenna. If he had competition, Jim's projects would have been tough to beat. As it was Jim was the only entrant in the Novice/Technician category and won a one-year club membership for his efforts.

Gary, W9XT, never fails to have an entry for the homebrew contest. This year Gary had a miniature electronic keyer which was designed for battery operation. It uses the same technology Gary used in our repeater IDer. It uses surface-mounted components and a micro-computer chip.

Bob, KG9CW, was solving a problem when he designed his special switch box. He saw a need to simplify switching microphones, plugs and cables when working HF and VHF digital and voice communications. Bob enjoys working RTTY and slow scan TV. He started with an A/B switch box and added what he needed. There was one vote difference between first place and first runner up. Bob's project

won him the distinction of first runner up. Bob is a past winner though, so we don't feel too badly for him.

Larry, WB9BVB, has been busy working on projects for slow scan TV. He submitted a transmit interface for SSTV and a Kenwood VOX unit which is used with Soundblaster. His second project was a JVFAX Transmit/Receive interface and his third was an interface used for Proscan and Soundblaster.

Chris, N9ZES, proved to be too tough for the competition with his entries. Chris built both a QRP (low power) transmitter and a receiver. The transmitter uses a single pentode vacuum tube. Chris explained that he found the plans in a CQ magazine. Chris wins a one-year free club membership with this excellent project.

Congratulations are in order not only for Chris, N9ZES and Jim, KB9LTW, for their winning projects but to everyone who participated in the competition. Keep the homebrew coming!

SWAPFEST

As if this wasn't enough, the club then held its first mini swapmeet which was intended just for club members. I think many members went home wishing they had brought some more money with them. I would like to see American or Best Buy match Maury's (W9MQD) price for a video monitor. It was free! Needless to say that Maury didn't have to carry it back home with him.

Club Breakfasts for June 1996

Larry, WB9BVB, provides us with the following breakfast schedule. Members of the Washington County ARC meet for breakfast at varying restaurants each Saturday morning. Guests are always welcome. The time for the breakfasts is usually 9:00 a.m. but due to Field Day setup the June 22nd breakfast has been set for 7:00 a.m. Please make a note of it.

Sat 6/01/96 9:00 a.m. Parkside Cafe, N168 W20566 Main St, Jackson

Sat 6/08/96 9:00 a.m. Hartford Paradise Family Restaurant, 827 Grand Ave., Hartford (previously Around the Lakes II)

Sat 6/15/96 9:00 a.m. Corfu Restaurant, 3052 Hubertus Rd., Hubertus

Sat 6/22/96 7:00 a.m. The Slinger Inn, 335 Hwy 175, Slinger

Sat 6/29/96 9:00 a.m. Fay's Family Restaurant, 1700 E. Washington St, West Bend ☐

OFFICIAL PUBLICATION OF CENTRAL WISCONSIN RADIO AMATEURS, LTD.

At University of Wisconsin, Stevens Point




WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 923 • Plover, WI 54467

CWRA MEETING MINUTES May 8, 1996

Club president Mary Eiden, KA9FAS, called the meeting to order at 7:31 p.m. The first order of business was to have been the showing of a video on lightning, but, due to unforeseen circumstances, this had to be postponed to next month's meeting. The video that Scott Jasper, NE9U, was to show at the June meeting, concerning his visit to station W0AIH, has been rescheduled for the July meeting.

The secretary's report and treasurer's report were presented and approved by voice vote. The engineer's report noted that a modifi-

cation is planned for the 146.985 repeater to improve its receive capabilities. It was also noted that Mike Peters, W9GHY, is donating hardline for the repair of the 67 repeater (thanks Mike!) and that the roster of hams with autodial privileges on the club repeaters will soon be culled of those who are not current dues-paying members.

OLD BUSINESS

1. The club's Swapfest is set to take place on Sunday, June 9, 1996, at the University Center at UW-Stevens Point from 8:00 a.m. to

Please turn to page 12

Watts Snoo

Continued from page 11

1:30 p.m. Commercial dealers will be there, food and refreshments will be available, and parking is free. Among the activities planned for the event are amateur radio FCC license exams (beginning at 9:00 a.m.) and a special swapfest raffle drawing (at 12:30 p.m.). For more information on the Swapfest, contact John Kalina, KA9DJA, at (715) 342-9714.

2. Raffle ticket sales to date have swelled the coffers of the club by \$ 760. (The club thanks activities manager Scott Jasper, NE9U, for taking charge of the raffle this year.)

3. Joe Larson, N9JW, coordinator of club support for the Special Olympics (June 6th, 7th, and 8th in Stevens Point), passed around

an operating schedule for volunteers. He also noted that there would be orientation sessions for new volunteers on June 3rd and 4th at 7 p.m. at the Allen Center on the UW-Stevens Point campus.

4. It's a "go" for Field Day, June 22nd. The club WILL participate. John Feltz, WA9-LWJ, volunteered to be coordinator. All club members, both veteran amateur radio operators and beginners, are encouraged to come out and be part of the team. Those interested in operating during the overnight hours are especially welcome.

NEW BUSINESS

1. Frank Guth, W9BCC, reports that the club's upcoming Swapfest is not the 19th annual, as our fliers advertise, but rather the 20th. Noted for the record, Frank!

2. The raffle drawing was held and yielded the following winners:

• Mary Larson, WB9WWS -- winner of a football autographed by the Green Bay Bay Packers.

• Michael Plaza and Dick Maigatter -- winners of \$50 Milwaukee Brewers gift certificates.

• Mike Eiden, WD9JID -- winner of tickets to a Green Bay Packer football game.

• Chet Schultz -- winner of \$ 250 cash. An additional raffle for ham prizes will be held at next month's Swapfest. Tickets will be sold at the door.

3. The club wishes to acknowledge the outstanding community service of three club members who assisted in the aftermath of the recent train derailment in Weyauwega: Gene Kröll, KE9MA; Corey DeMarco, KB9LLA; and John Mielke, N9ROZ.

The next club meeting will take place at 7:30 p.m. on June 12th in room A-107 of the science building on the campus of UW-Stevens Point. Those attending should enter the building

via the glass doors at the east side of the building, the side facing parking lot X.

Respectfully submitted:
David Tamres, KB9IIF
CWRA secretary

ATTENDANCE

Brian Asplin	N9MZI
Bob Baird	W9NN
Jim Benak	KA9ACE
Mary Eiden	KA9FAS
Mike Eiden	WD9JID
John Feltz	WA9LWJ
Scott Jasper	NE9U
Wayne Johnson	K9MIF
Joe Larson	N9JW
Al Mallek	K9WVM
Jeremiah Maller	N9WBU
Dave Olson	N9JQU

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, June 6th at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

EXCERPTS FROM MINUTES OF MAY 2, 1996 MEETING

Meeting was called to order by President N9GEN. Present were N9GHZ, N9GEN, WD9FWP, W9QHI and AA9LE.

Minutes of the April 4, 1996 meeting were read by Secretary N9GHZ. A full treasurer's report was not available as Treasurer KA9-WDX could not attend. However, it was reported that we have 2 new club members, 2 who have renewed their membership as well as their BSSS subscriptions, and one paid member who renewed their BSSS subscription.

N9GHZ reported that he had sent out the mass mailing requesting individuals to renew their club memberships and BSSS subscriptions, and that he will be changing the 147.15 Medford repeater autopatch code as of May 31st, after which only those currently paid club

members will have access to the autopatch.

The club's application for a club callsign has been completed and will be sent in shortly. W9QHI is stepping down as trustee of the club's repeater. Ray was given a BIG THANK YOU for his years serving in that capacity. N9GHZ has agreed to accept the trustee appointment, as required on the club callsign application form.

Per N9UBQ, Taylor County Emergency Government Coordinator, Northway Communications in Wausau has been contacted and they should be in Medford on May 7th to look into the problems remaining with the 147.15 repeater following the recent lightning strike. N9GHZ reported that he had tried adjusting the noise level (squell) setting on the repeater controller, but the problems with poor receive sensitivity and audio still remained. N9GHZ also reported that he had recently sent a follow-up letter to Northway regarding some ongoing interference problems to the repeater.

Several recent ARES activities were discussed, including the National Weather Service SKYWARN severe weather spotter training sessions held on April 23rd in Medford and the simulated SKYWARN severe weather net held on April 25th on the 147.15 Medford repeater in conjunction with Tornado Awareness Week. N9GHZ announced that an open house with tours will be held at the new National Weather Service office in La Crosse on May 30th from 4 p.m. to 8 p.m. Taylor County is now under

the jurisdiction of the La Crosse office.

N9GHZ also reported that he recently received a request for Amateur Radio communications for the annual American Cancer Society "move-along-a-thon" to be held on June 1st in Medford.

N9GHZ reported on the results of the club-sponsored Amateur Radio exhibit at the first annual Business and Industry Expo held on April 22nd at Abbotsford High School. Two Abbotsford area residents indicated an interest in obtaining an Amateur Radio license. The only other ham radio operator in attendance was N9RRF, who assisted with manning the exhibit and with taking it down afterwards. The exhibit included handouts, videos, static displays, and a working 2-meter voice and packet station.

Field Day for 1996 was discussed. No action was taken at this time.

It was mentioned that net control operators are needed for the weekly ARES net held on Wednesday nights at 8:30 p.m. on the 147.15 Medford repeater.

Meeting was adjourned.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15

MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

For those who may not yet have heard the news, Florence Studinski retired as director of the Clark County Office of Emergency Government on 8/31/95. Her replacement is Jan Brom. Jan has already met several Clark County Amateur Radio operators, and hopes to attend a Black River Wireless Assn. club meeting in the near future.

N9UWY and N9RRF assisted in providing Amateur Radio communications for the 4th annual P-Town Tramp snowshoe races and tours held near Perkinstown in Taylor County on January 20th.

N9MHV, representing the Clark County Amateur Radio Emergency Service, attended a tabletop disaster exercise held at Abbotsford City Hall on April 2nd. The Clark County Office of Emergency Government was involved with the exercise.

The following Amateur Radio operators attended the National Weather Service-sponsored SKYWARN severe weather/tornado spotter training session held in Neillsville at 1 p.m. on April 18th: N9MHV, N9UWY and KB9KFD. Those attending the 7 p.m. training session in Owen on April 18th were N9UWY, N9GHZ and N9RRF.

W9FPE, Greenwood, served as net control station for the simulated Clark County ARES/SKYWARN net that was held on April 25th in conjunction with Tornado Awareness Week. There were a total of 7 check-ins to the net: 3 base stations, 3 mobiles and one portable. Six of the 7 check-ins did so using emergency power sources (as opposed to using commercial power sources). □



E.C.A.R.C.
eau Claire
amateur radio club

Carl Searing, W9NW, Secretary
1129 McKinley Rd. • Eau Claire, WI 54703

MEETING MINUTES May 14, 1995

The meeting was held in an assembly room in the Chippewa County Court House in Chippewa Falls, WI.

Sheriff Ron Anderson, WA9PAM, spoke a few words on the Emergency Communications system, which we were to tour later in the evening, and commented on the status of the new 911 system installation.

The regular business meeting was conducted by President Kevin Zehr, N9OHE. With some 28 members present, secretary's and treasurer's reports were read and approved, and a rollcall made.

Melanie Ceraso, N9QWE, has created a "Homepage" on the Internet for the Club. Its address is:

<http://www.edp.net/~mcceraso/ECARC.html>

It contains info on Club activities, meeting and Hamfest info as well. Many thanks to Melanie for this gift to the club.

There was a brief discussion of the upcoming Hamfest, and the as-yet uncompleted building's suitability for testing purposes.

N9UXH, Jack Brenner, spoke on the recent efforts by the Legislature to have municipalities regulate ham antennas. Although passed by the Senate, the bill died, and proponents will have to start over, perhaps not realizing that PRB-1 takes precedence.

Jack also commented on efforts by the Chippewa Valley Amateur Emergency Service (CVARES) to obtain the donation of a re-

cently-surplus Fire Department equipment van for conversion to a mobile communications unit. The Secretary was directed to write to the President of the Eau Claire City Council stating the club's support of this.

Kevin discussed the results of his recent survey (125 questionnaires mailed, 22 received). One suggestion favored by many was to have a picnic in conjunction with Field Day, which this year will be at Mt. Simon Park in Eau Claire on Saturday, June 22. The matter was approved by vote.

The business meeting was followed by tours of the new Chippewa County Emergency Center, which appeared to be having a busy night. Tours were conducted by our President, Kevin, who is a telecommunications officer at the Center. The Center is a modern, efficient place, and appears to be a model of modern communications.

Lunch Committee for the June meeting: KC9NN, N9OHE, N9UXH.

Respectfully submitted:
W9NW, Secretary

Hamfest Advertisers

PLEASE keep the info in your ads up to date. It's YOUR responsibility! Send changes to Jim Romelfanger, K9ZZ, Editor, 412 1/2 Ash Street, Baraboo, WI 53913. Thanks!

Quarter Century Wireless Association Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Racine, WI 53402



The beginning of May saw Bob, W0WLN, and Gladys Jensen, heading for Colorado on a triple excursion; a) a mini vacation, b) an opportunity to break bread with members of Bob's QCWA Colorado Chapter (I understand the Colorado group sets it dine-in event to coincide with Bob and Gladys's annual trip there - very nice; and c) a reunion with his former military unit (I hope I have this correct, but if this fall true to form, my batting average just dropped me to zero for nine. Oh well, I'll mend my error next month). Both had a grand time there.

Marie (Ed, W9NVK) Konicek has just completed her second cataract surgery and is, according to Ed, doing great. Spence Clope, W9LDH spent several days in Madison at his daughter's home alternating with clinic visit and surgery on, or should I say in, an ear canal.

He returned home just in time to assist in the annual Lutheran High School Walk on the 3rd of May. In addition to Spence, three other Chapter members participated in the walk, Fern Fisher, W9LCJ; Bill Komistra, W9OVZ; and Larry McCalvy, WA9JMO. We are proudly sporting our walk T-shirts. I would also like to thank the others who helped in the walk; Leah Nelson, KB9KUA; Rick Panyk, KG9ER, and Bill Firchow, NW9P.

We will finalize (by the time you read this, we will have finalized) our Field Day plans at our May 20th meeting. One or two Transceivers, a couple of antennas, a few 807's, several hours in the warm June sunshine and we'll be ready with all our tall tales about the rare contacts we almost had.

Mark your calendars for Sunday the 9th of June! It is our annual Great Mosquito Awareness outing at the home of Ken, N9NBC and Marbeth Knoff, 16616 - 12th Street, Kenosha. Take I-94 to Hwy. "E" Kenosha County, turn west for about three miles and hang a right into

their driveway. Talk-in will be on the 147.27 repeater. The world famous event will begin about 1 p.m. and last until we go home. Ken said the grill will be fueled for us to cook what needs cooking and we should all bring a dish to pass. My mouth is watering just thinking of all those fine food dishes of past awareness gatherings. We only have to wait a few more days!!

"Skokie" Bill Hawes, W9ERG, has been having a rough time trying to copy and make the system during our Thursday evening Nets. Maybe we can petition the repeater group to put a remote site just inside the Illinois State Line for you Bill. We can ask, all they can do is say no.

Art, W9VSO, and Terry, N9VKF, Vahovius, have sold their Mukwonago home and are making several trips down to Gulf Shores, Alabama as this is being written, with artifacts and other creature comforts accumulated over the years. Hopefully their plans still include spending part of the summer season in Southeastern Wisconsin and socializing with Chapter 162 social events.

One last note, concerning the Great Mosquito Awareness happening; it was suggested that during this great event that wouldn't it be nice if our artists could display their art work and talk about painting pictures along with other related stuff. We said sounds good, lets do it. The only thing we forgot to do was ask the artists. The three talked about were Steve Bellgraph, K9ZL, Rev. Jim McChesney, WA0PFV, and Wendy McCalvy, N9PAC. Wendy said she would love to do it, but has another commitment. Rev. Jim thought he might be out of town, and I can't remember what Steve said. So plan on attending, if we don't have an art show, maybe I'll sing and do a little soft shoe routine.

73, Larry McCalvy, WA9JMO

The Racine Megacycle Club



Club Station W9UDU • Racine, WI

ARRL Affiliated

Providing Communications for American Red Cross and ARES

Alex Voss, N9RGX, Secretary

c/o RMC • P. O. Box 3 • Racine, WI 53401-0003



MEETING MINUTES MONDAY, MAY 13, 1996

The meeting was called to order by president Rob Madson, KF9ZT, at 7:38 p.m. local. Those present were:

Rob, KF9ZT, President
Kenny, N9WHR, Vice-President
Dave, AA9HL, Treasurer
Alex, N9RGX, Secretary
Lee, N9VNU, Activities Manager
Dan, KA9OIL, Trustee
Dennis, KG9DO
Bruce, K9RRS
Bill, W9OVZ
Jim, W9LXY
Ken, N9NBC
Paul, N9RGW
Larry, WA9JMO
Dave, KC9NG
Mary, N9ZWE
Alan, N9ZWJ
Don, KB9HAM
Pete, KB9LXM
Robin -- Visitor

The treasurer's report was accepted as read.

The secretary's report was accepted as printed in the *Badger State Smoke Signals*.

OLD BUSINESS

Field Day! Rob, KF9ZT, said that we need people to sign up for Field Day. We have some new equipment.

Larry, WA9JMO, gave a report on the generator he said that the old generator needs a new water pump. The Generator is about 50 years old with a Continental gasoline engine. Ken, N9NBC, asked if it were possible to find someone to fix the old water pump.

Lee, N9VNU, said the results of the Wisconsin QSO party will be printed in the

July issue of *Badger State Smoke Signals*. So you can check out how well you did and also how well the club did.

NEW BUSINESS

Rob, KF9ZT, also said that the Racine Megacycle Club's purpose is to educate, we interact and have meetings... coffee... fox hunts. He said that many times he asked people "Why don't you join the Megacycle Club" and they always say "What is it going to do for me?". He continued to say that we are starting to do more things to make it interesting for people to join. He said that we have equipment that is easy to use. We now own an Icom IC-706, 160-2 meter rig. We also now have an MFJ Antenna Analyzer that will be available for club members to use. So... why be a member of the Racine Megacycle Club? We have equipment for you to use! We will have a policy as to how equipment such as the antenna analyzer will be loaned to the members. We will require a deposit! The purpose for the deposit is to insure that members will return the equipment in a timely fashion so that it will be available for others to borrow. The equipment is for members only! If anyone wants to borrow equipment and is not a member... Membership is only \$6.00.

Larry, WA9JMO, offered the club use of a financial computer program to help keep track of the club's finances.

Larry, WA9JMO, also mentioned that he had a source who could print up our fest flyers for nothing. He said he would need a year lead time, so we could print up the flyers for the 1997 Racine Hamfest.

ANNOUNCEMENTS

Lee, N9VNU, said that he had a neighbor that has a 30 foot TV tower he wishes to get rid of. If you're looking for a tower, contact Lee, N9VNU.

Ham Calendar 1996

Courtesy Racine Megacycle Club

JUNE

Sat	1	Testing Racine
Sat	1	Hamfest Friendship
Sun	2	Kenosha Ham Breakfast
Sun	2	Hamfest Princeton
Sat	8	through
Mon	10	VHF QSO Party
Sun	9	Hamfest Stevens Point
Sun	9	Hamfest McHenry
Mon	10	RMC Fox Hunt
Fri	21	RMC Fox Hunt
Sat	22	Field Day starts
Sun	23	Field Day ends

JULY

Sun	7	Kenosha Ham Breakfast
Mon	8	RMC meeting
Sat	13	Hamfest Oak Creek
Sat	13	IARU HF World Championship
Fri	19	RMC Fox Hunt
Sat	27	Hamfest Eau Claire
Sat	27	Hamfest Rockford
Sun	28	HAMFEST RACINE!
Tue	30	Lakeshore meeting

AUGUST

Sat	3	through
Sun	4	UHF Contest
Sun	4	Kenosha Ham Breakfast
Mon	12	RMC Meeting
Fri	16	RMC Fox Hunt
Sat	17	through
Sun	18	10 GHz Contest
Sun	18	QCWA #162 Annual Picnic
Sat	24	Hamfest Onalaska

SEPTEMBER

Sun	1	Kenosha Ham Breakfast
Sat	7	Testing Racine
Mon	9	RMC Meeting
Fri	13	RMC Fox Hunt
Fri	13	through
Sun	15	Hamfest Peoria

Sat	14	through
Sun	15	VHF QSO Party
Sun	16	QCWA #162 Business Meeting
Sat	21	Amateur Radio Awareness
Sat	21	through
Sun	22	Hamfest Grayslake
Sat	21	through
Sun	22	10 GHz Contest

OCTOBER

Sat	5	Testing Racine
Sun	6	Kenosha Ham Breakfast
Fri	11	RMC Fox Hunt
Sun	13	Hamfest Waukesha (KMRA)
Mon	14	RMC Meeting
Sat	19	through
Sun	20	BSA Jamboree on the Air
Sat	19	through
Sun	20	Simulated Emergency Test
Sun	20	QCWA #162 Election
Tue	29	Lakeshore Meeting

NOVEMBER

Sat	2	Testing Racine
Sat	2	Sweepstakes - CW
Sun	3	Kenosha Ham Breakfast
Fri	8	RMC Fox Hunt
Mon	11	RMC Meeting
Sat	16	through
Mon	18	Sweepstakes - Phone
Mon	18	QCWA #162 Business Meeting

DECEMBER

Sun	1	Kenosha Ham Breakfast
Fri	6	RMC Fox Hunt
Fri	6	through
Sun	8	160-Meter Contest
Sat	7	Testing Racine
Sun	8	QCWA #162 Christmas Meeting
Mon	9	RMC Christmas Meeting
Sat	14	10-Meter Contest
Tue	31	Straight Key Night

Bruce, K9RRS, said that the CD-ROM on the BBS is down. He is looking for a CD-ROM for the Packet BBS. Bruce supports the local BBS {K9RRS} on 145.530 MHz. If you have a CD-ROM call Bruce, K9RRS.

Rob, KF9ZT, said the club has equipment that will be liquidated for funds. We have: Epson 9-PIN Printer (functional), Digital LDP-16 {Hewlett-Packard} Plotter, and misc. stuff.

Also available, Uniden satellite TV receiver (no antenna) and remote about 3/4 years old with a VideoCypher II descrambler. (contact Rob, KF9ZT).

Lee, N9VNU, said that we need vehicles to transport equipment for Field Day.

Dan, KA9OIL, also brought up that Shannon will be up in the MIR Space Station for the next 4 months on 145.550.

The Goodie Box went to Mary, N9ZWE.



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Rd., Cleveland, WI 53015

At press time, no information for publication has been received from the SCARC.

WOULD YOU BE INTERESTED IN A HAM RADIO CRUISE?

If you would be interested in going on a cruise sometime in 1997, Please fill out this no-obligation information gathering survey and send it to: Survey, c/o RMC, P.O. Box 3, Racine, WI 53405-0003.

Name _____ Call Sign _____

Address _____

1. Have you ever been on a cruise? YES NO
2. If so, how long ago? _____ Where did you go? _____
3. If you were to go on a cruise, would you prefer 4 or 7 days? _____
4. Would you prefer the Caribbean, Mexico, or Alaska? (circle one)
5. What time of year would you prefer to go? _____
6. If a cruise was organized for Wisconsin Amateur Radio Operators and their spouses for 1997, would you consider going? (circle one)
YES PROBABLY NOT INTERESTED
7. If you have cruised before and would like to suggest a cruise line or ship for this trip write your response here. _____
8. What might keep you from going on a cruise? _____
9. What have you heard about cruising that might make you want to go? _____
10. What special activities would you like to have planned as a part of a "Ham Radio" Cruise? _____

If you have any questions you may call Cheryl, WS9P, at (414)632-2985

Red Cedar Repeater Association, Inc.



Steve Hart, KA9OMC, Secretary



E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings RCRA sponsors and guests.

- Let's take it one line at a time;
- All the best to NB9H, Bill at Webster, who has recently graduated at Duluth.
- Welcome back to snowbirds KC4VXO, Gene, and KC4WDX, Joyce from Florida.
- Sorry to report K9FIF, Lester Baader of Nelson, has gone silent.
- Durand amateurs N9VCA, Gloria, and WA9CCB, Louis Forster, recently celebrated their 50th wedding anniversary.
- N9KOS, Dan Ley at Menomonie, is busy leading 4-H and playing saxophone with the Ludington Band.
- N9KMZ, Tom Johnson, has been taking severe weather reports in the midnight hours during the superstorm on May 19th.
- WB9OKQ, Lyle, and KB9NGE Todd, are looking for 2-meter mobile gear.
- NQ9X, Ed, wants to sell his Leading Edge Computer.
- The RCRA needs a source for paper for a 3M 226/273 copier.

- KB9NIR, Scott Kilde, is looking for help planning and erecting his 80 foot tower. He is also building up his own transmitter for high frequency.

- N9PPE, Jeff Cole, is looking for solar panels.
- N9TTV, Glenn, is busy being primary care giver to his wife.
- NX9F, Jim, has been editing books for publication.
- N9LIJ, Jim, is working the radio store in the Oakwood Mall Eau Claire.

Just a line to inform our users that the receiver at the Colfax site has been changed and is giving us much better results. The Menomonie remote has been completely re-worked with a different receiver and controller.

Remember to check into the weather nets and to the Monday Nite Net at 6:30 p.m. Net controls are also needed.

73, RCRA Sec/Treasurer
Steve Hart, KA9OMC

THE LAST WORD..

- THANKS to all participating clubs whose secretaries or other reporters get their info to us on time for publication. It makes putting the paper together a little less stressful and certainly makes it easier to plan page layout. This month, we had to drop one point size to get all the info in. Next month will bring a "rearrangement" to bring readability back to normal.

- Sorry to STILL report that nobody accepted the Mancorad Club's \$65.00 matching fund challenge to help us get some much-needed improved optical character recognition software. The software supplied with the flatbed scanner works, but makes a fair number of errors. The improved Caere software package will even permit scanning poor quality FAXes. This is an identified need, not just a "want." We hope another club will lend a hand.

- See you next month with the Wisconsin QSO Party results and our other usual features!

- 73, Jim Romelfanger, K9ZZ, Editor



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Bob Gedemer, KA9JAC

609 Wilson Street, Neenah, WI 54956

Andy Nemec, KB9ALN, Editor, 720 N. Broadway (Upper West), Green Bay, WI 54303

Using the Wisconsin Network - Part 16 by Andy Nemec, KB9ALN

Last time we traveled our Wisconsin network, our discussion centered on sending a message from a typical BBS you would find on our packet network - the "MSYS" BBS. While this type of BBS provides the usual services associated with any other BBS, it also can be used as a node in many instances. In fact, it is pressed into that service in many parts of our state.

MSYS nodes use the very same computer to operate the BBS as the Node. The call-sign will have a different SSID than the BBS (commonly it will be - 5). There is also a bit of a price to be paid for operating a sophisticated BBS and Node on one computer. MSYS Nodes operate a little more slowly than a dedicated network nodes, but they do get the job done.

MSYS BBS's will function as a node in a couple of ways, as non-networked or networked. As a non-networked node, you will find that it operates in much the same way that a K-Node operates. If you have a Kantronics TNC, or use one as a local "Wild Node", you pretty much know how it operates. The basic commands of the K-Node style MSYS node will look something like this:

Bye BBS Connect Help Info JustHeard Knode Ports Talk Users

Depending on the way that the BBS and node are configured, you may see more of these commands, or perhaps fewer. This is a typical arrangement. The most obvious differences are shown in the JustHeard, Knode, Ports and Talk commands.

The JustHeard command will give you a heard list, broken down by port number. For example, a typical JustHeard list might look something like this:

On BBS	Port 0	Port 1	Port 2	Port 3	Port 4
W9XBD	KB9XTL	NU9UR	W2XBS	KX9TC	DL0MEN
AZ9ZA					
W9XFN					

Note that there are a couple of odd things going on there. Just as normal network nodes have more than one port, an MSYS node can, too. Notice, too that the BBS is counted as a port. You can usually connect to the BBS from the node by typing BBS when you connect to the node. Also notice DL0MEN on port 4. Yes, this type of node may have several radios hooked to it, and one of them might very well be an HF radio.

The Ports command will give you a listing of just what port does what. For example, you may see a listing like this when you invoke this command:

Port 0 is 145.090
Port 1 is 446.375
Port 2 is 145.030
Port 3 is 446.200 Port 4 is 14.105

The Knode command is similar to the Nodes command you will find on networked nodes, but only lists known Kantronics Knodes. No network nodes will be shown.

The Talk command will connect you to the BBS operator's keyboard, so you can talk to him or her. When you issue this command, you will see this:

Paging SYSOP for 60 seconds.

If the sysop is prepared to answer your call, he or she will break in and converse. If not, you will be returned to the node and will see the prompt:

Node Cmd?

The remainder of the commands are the same as a

standard network node, with one exception. The Connect command is different because of the number of ports involved. In the example above, we know from issuing the Ports command that Port 2 is 145.030 Mhz. If you wish to connect to W2XBS on that frequency, you would alter the standard connect command to include the port number. It would appear as:

C2 W2XBS

If your station was on port 1, you would use C1 for the connect command.

Networked MSYS nodes operate in the same way as the usual "TheNet" style node. The Help command will return the same information as the K-node version, with a couple of additions. These are Nodes and Routes. They will give you the same results as "TheNet" type nodes.

The Connect command shares some of the restrictions of the Knode, unless you are making a connection to another Network Node.

For example, if you find a node that you wish to connect to by using the Nodes command, you do not need to know what port it is on - it's automatic. If you intend to connect to a station that is not a node, you still need to add the port number after the C (or Connect). If you try to make a connection to a network node by using the port number along with the C, the MSYS node will make that connection as a standard "AX.25" connection. In other words, the node will behave as though it were a Knode, and you will lose the advantages of the network connection.

When in doubt as to the type of node, you can always issue the Help command. MSYS nodes will have a long and thorough help file that will list the valid

commands and a short explanation of each.

That wraps up our discussion of the node function of the MSYS BBS. Next time, we will do a "wrap-up" of loose ends concerning the BBS and Node operation of the MSYS BBS program. Until then, 73 from Andy.

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RCA Dual trace adaptor, \$75.00.
Trio signal generator, \$75.00.
Quad antenna kit, \$50.00.
Katsumi microphone comperssor, \$40.00.
Antenna bridge, \$40.00
Hy Gain 10-40 meter dublet, \$25.00.
2-meter JR. Boomer, \$80.00
Terry, KA7TYS, (414)-794-0983.

FOR SALE: Rohn fold over tower, 54 feet. Complete with guy and turnbuckle, 3 element antenna and HAM-M VII rotor. \$700.00. Daniel J Smith, KC9EX, 514 W. Union Ave, Cedar Grove, WI 53013.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

WISCONSIN AMATEUR PACKET RADIO MEMBERSHIP APPLICATION

PLEASE PRINT

NAME: _____ CALL: _____ HOME PHONE: (____) _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

HOME BBS: _____ FREQ. _____ (Listing your home BBS is important)
Your HOME BBS should be a full service BBS, not your TNC's mailbox.

MY PACKET STATION OPERATES: _____ DAY _____ NIGHT _____ 24HRS

I OPERATE A: _____ DIGIPEATER WITH ALIAS OF: _____
_____ FULL SERVICE BBS

PRIMARY PACKET INTEREST/EXPERTISE IS: _____

_____ YES I want to receive Badger State Smoke Signals and I understand that part of my dues goes to pay this subscription. cost \$20.00

_____ NO I do not wish to receive Badger State Smoke Signals as a part of my WAPR membership. Cost \$15.00

COMPLETE and return this form with your check or money order - \$15.00 membership only or \$20.00 membership and Badger State Smoke Signals. made payable to W.A.P.R. (NOT payable to Bob Gedemer) to:

Bob Gedemer KA9JAC/WAPR
609 Wilson St.
Neenah, Wi. 54956-3129

THE TEST POINT

(continued from page 3)

ONALASKA, WI

On behalf of the Riverland Amateur Radio Club's E team and Bill Wood, KE9XQ team Chairman, we announce the amateur radio exam schedule for 1996. The sessions will be held at 7 O'clock P.M. at the Onalaska Community Center, 515 Quincy Street in Onalaska WI:

Saturday, September 21st; and Saturday, November 10th.

There will be sessions conducted Friday, August 23rd and Saturday, August 24th at 8 O'clock A.M. at the Onalaska OMNI Center at 7 O'clock P.M. The OMNI Center is located on Riders Club Street in Onalaska, WI. These tests are in concurrence with Hamfest, Computer Expo, and Antique Radio Show held on Saturday, August 24th at the Onalaska OMNI Center.

The Riverland Amateur Radio Club Volunteer Examiner Team is affiliated with the American Radio Relay League. The team is field-stocked, and walk-in candidates are welcome. The team does appreciate advance registration, especially for license exams for the General, Advanced, and Extra classes. We will allow a retest on a time available basis, provided a second exam fee is paid. We use multiple choice format answers for the Morse Code exams.

For further information or to preregister for an exam session, please call Bill Wood, KE9XQ at (608) 788-8571. You may also contact Karl Simonson, KB9EQI at (608) 526-9413 or via packet: KB9EQI@AA9AW. EN43KM.WI.USA.NA

CEDARBURG, WI - ORC HAMFEST
EAU CLAIRE, WI - ECARC HAMFEST
GREEN BAY, WI - ARES HAMFEST
HAYWARD, WI - HAYWARD HAMFEST
KAUKAUNA, WI - SWAPFEST
MANITOWOC, WI, LAKESHORE HAMFEST
MARSHFIELD, WI - HAMFEST
OAK CREEK, WI - SMARC HAMFEST
RACINE, WI - RACINE HAMFEST
RHINELANDER, WI - NWARC SWAPFEST
ROCKFORD, IL - RARC HAMFEST
ROTHSCHILD, WI - WVRA HAMFEST
SOUTH MILWAUKEE, WI - SMARC HAMFEST
STEVENS POINT, WI - CMRA SWAPFEST
WAUKESHA, WI - KMRA SWAPFEST
WAUKESHA, WI - MIDWINTER SWAPFEST



Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call)
K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary
450 West 2nd Street • Reedsburg, WI 53959



The MAY 16, 1996 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 8:54 p.m. by club president, Steve Schulze, N9UD0. A fox hunt preceded this evening's meeting.

The minutes of the last meeting, as published in the BSSS, was accepted. Jim Decker, WB9UQT gave the financial report.

OLD BUSINESS: Steve Schulze and Bill Hommel, KA9QFT are making arrangements to obtain the surplus computer equipment from the Baraboo school and then store the equipment at Steve's place. Jim Paul, N9LKY received a thank you note for the club's participation at Youth Opportunity Days. The boy scout Circus Heritage Days will be held this weekend and the club will have a display on Saturday morning.

NEW BUSINESS: Preceding this evening's meeting was a fox hunt. Fox Master was Steve Schulze. Foxes were George McArthur, N9ZGY and Bill Hommel. Two teams participated in the hunt. One team consisted of Jim Romelfanger, K9ZZ and Alan Johnson AA7CS. Jim Paul was eventually joined by Bill Klinkner, N9KXX as the second team. Winning team was N9LKY and N9KXX who had 1.2 fewer miles on the odometer than the other team. Steve Schulze announced that Bob King, KA9GNY coordinated the donation of antennas by Maynard Snyder, W9EMO. Bill Klinkner suggested the club secretary write a thank you note to Maynard for the donation. Steve also announced that the last class was last night followed by an examination session.

The student passed the no-code tech exam. Two other hams were at the session for upgrades. Art Kleefisch, W9WSS who owned the hand held device used to select the buck winner, just happened to select himself as the winner. WAY TO GO ART! Meeting adjourned at 9:30 p.m.

The next meeting will be held Thursday June 13, 1996 at 7:30 p.m. in room 14 at the Baraboo Civic Center to plan for field day June 22-23.

Sincerely,

Raymond J. Matlosz, N9MLZ, Secretary

The following members and guest were present:

Steve Schulze	N9UD0	Baraboo
Jim Romelfanger	K9ZZ	Baraboo
Jim Paul	N9LKY	Merrimac
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo
Allan Johnson	AA7CS	Reedsburg
Thomas Harrison	N9PQJ	Reedsburg
Bill Klinkner	N9KXX	Sauk City
Raymond Matlosz	N9MLZ	Reedsburg
David Spearing	KB9CSW	Portage
Leonard Wagner	N9XJG	Baraboo
George McArthur	N9ZGY	Baraboo

DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

EAU CLAIRE AMATEUR RADIO CLUB SWAPFEST

*New Location*New Location*New Location*

Eau Claire County Fairgrounds
Eau Claire, WI.

SATURDAY JULY 27, 1996 from 7:30am to 2:30pm

- | | | |
|--------------------------------|------------------------------------|--|
| *FREE PARKING | *ADVANCE SETUP
FROM 5PM FRIDAY | *RAFFLE PRIZE
DRAWING 1:30PM |
| *FREE COFFEE | | |
| *DOOR PRIZES | *BUILDING SECURITY
FRIDAY NIGHT | *1ST PRIZE
YAesu FT-530
DUAL BAND HT |
| *COMPUTER EXPO | *COMMERCIAL
EXHIBITERS | *2ND PRIZE
ICOM 2000H 2M 50W |
| *LUNCH AVAILABLE
ON GROUNDS | | |

INFORMATION AND RESERVATIONS
N9TUA Carol Ceraso N9EQR Liz Searing
(715) 723-9205 (715) 834-1303
Eau Claire ARC
P.O. Box 1867
Eau Claire, WI. 54702-1867

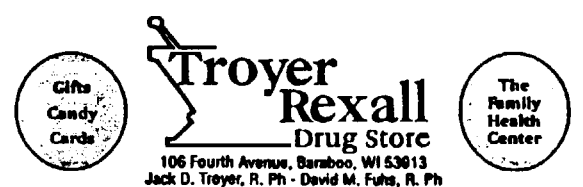
W5YI VEC EXAMS
Friday July 26 7-9PM
Saturday July 27 9AM-1PM
all walk-ins
W9NW (715) 834-1303
for information

TICKETS

Admission	\$ 5.00
(includes 1 raffle ticket)	
Raffle Ticket	\$ 1.00
Tables (non-com)	\$ 5.00
Tailgating(non-com)	\$ 5.00
Tables (commercial)	\$10.00

NEW LOCATION

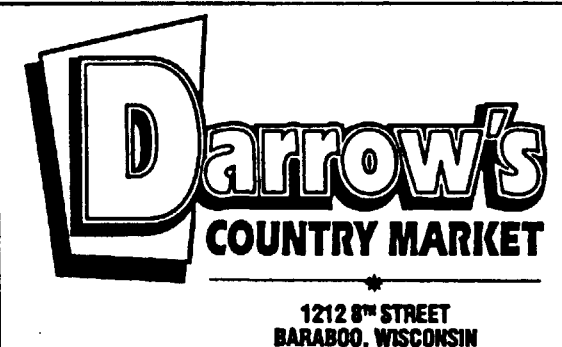
- * Eau Claire County Fairgrounds just south of I-94 at the Hwy 93 Exit
- * From Rice Lake - 53s to Hwy 93s at Eau Claire, Hwy 93s to fairgrounds
- * From East or West - I-94 to Hwy 93s Exit
- *Talk-in on 146.31/91 Repeater*



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WAUKESHA, WISCONSIN
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JANUARY 12, 1997

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SUNDAY, APRIL 13, 1997
Dane County Expo Center
Exhibition Hall

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Swapfest Information Line: (608) 245-8890

SOUTH MILWAUKEE AMATEUR RADIO CLUB
SWAPFEST 96
July 13, 1996
(Held every July)
American Legion Park
Shepard Avenue • Oak Creek, WI
(414) 762-3235 Extension 58
P. O. Box 102 South Milwaukee, WI 53172

Fox Cities Hamfest
Sunday, November 3, 1996
Starlite Club, Hwy. 55 north of Kaukana

HAMFEST INFO:
Chad Pennings, N9PRC
318 E. Brewster St.
Appleton, WI 54911
(414) 759-0799

EXAM INFO:
Larry Siebers, KD9IA
(414) 759-1167

Lakeshore Hamfest
and Computer Swapfest
Manitowoc County Expo
Intersection of Hwys. 42-151 and I-43 on Cty. Hwy. R

For more information, call:
Glenn, AA9MT: 414-684-7096
Red, N9GHE: 414-684-9097 (nights)
ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

HAMFEST & COMPUTER EXPO
ANTIQUE RADIO SHOW
SATURDAY, AUGUST 24, 1996
8 A.M. TO 3 P.M.
OMNI CENTER • ONALASKA, WI
2 1/2 MILES NORTH OF LA CROSSE, WI ON HWY. 35
RIVERLAND AMATEUR RADIO CLUB
WESTERN WI ANTIQUE RADIO COLLECTORS CLUB
CALL DICK LOW, K0JYB • 1-608-784-9176
1520 NAKOMIS AVE., LA CROSSE, WI 54603

19th Annual
CWRA Swapfest
Sunday, June 9, 1996
8 a.m. to 2 p.m.

UNIVERSITY CENTER, U.W. STEVENS POINT
Info: John Kalina, KA9DJA (715) 342-9714
1240 North Point Drive Stevens Point, WI 54481

Eau Claire Amateur Radio Club
SWAPFEST
Saturday, July 27, 1996
Eau Claire County
Fairgrounds
Intersection of Highways 93 and I-94
Carol Ceraso • (715) 723-9205 Liz Searing • (715) 834-1303
P.O. Box 1867 • Eau Claire, WI 54701

RACINE HAMFEST 96
Sunday, July 28, 1996
8 A.M. - 2 P.M.
SOUTH HILLS COUNTRY CLUB I-94
East Frontage Road
Between Highway 20 and Highway K
OUTDOOR AND INDOOR SALES
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TABLES \$8.00
Advance Tickets **\$ASE and \$3.00**
Send to RMC, P.O. Box 3, Racine, WI 53401

Ozaukee Radio Club
**18TH ANNUAL RADIO AND
COMPUTER SWAPFEST**

8 a.m. to 1 p.m. • Circle B Recreation Center
Intersection of Highway 60 and County I
Exams by Badger Examiners, c/o Gary Sharbuno,
5119 W. Willow Rd., Brown Deer, WI 53222
Swapfest sponsored by the Ozaukee Radio Club
11448 N. Laguna Drive • Mequon, WI 53092

Kettle Moraine Radio Amateurs
SWAPFEST
Sunday, October 13, 1996

Waukesha County Expo Center
Info: KMRA Swapfest P. O. Box 411
Waukesha, WI 53187-0411

Red Cedar Repeater Association, Inc.
AUCTION
February 25, 1997 • 7:00 p.m.

American Legion Post 53 • 634 Water Street
Eau Claire, WI
CONTACT:
Steve Hart, KA9OMC 715-665-2374
E616 810th Ave. Knapp, WI 54749

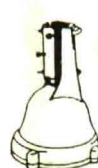
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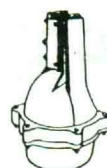
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Fort Atkinson, WI 53538 Evenings

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